

of Kajiado





County Government of Kajiado Kenya Climate Smart Agriculture Project P.O Box 54-01100 KAJIADO

ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT FOR THE PROPOSED RANGELAND REHABILITATION AND PASTURE DEVELOPMENT PROJECT FOR OLOIBOR-AJIJIK-NAMITU-ENKITEG SELF HELP GROUP IN OLOIBORVILLAGE, IMARORO WARD, KAJIADO COUNTY



Kenya Climate Smart Agriculture Project Summary Project Report March 2021

Prepared By:

Eng. Josphat N. Omari, Registration No: 7645, P.O. Box 1500-0600 TEL 0770255566 Nairobi, Kenya omarijn@gmail.com

FACT SHEET

Project Name	Proposed Rangeland Rehabilitation and Pasture Development Project for Oloibor Ajijik Namitu Enkiteg Self Help Group in Oloibor Village, Imaroro Ward, Kajiado County.		
Assignment Name	Summary Project Report; Environmental and Social Impact Assessment (ESIA).		
Location	Oloibor – Ajijik Village, Imaroro Ward, Kajiado East Sub-County, Kajiado County		
GPS Coordinates	Latitude 1053'10.15812" S and Longitude 3702'44.15752" E 1575m above sea level		
Project Description	Rangeland rehabilitation and pasture development project set up on 25 acres of community land. The group will carry out the following activities: a) Carry out site clearance on the parcel of land to pave way for the establishment of pasture b) Construction of a Hay, Seed Store and fencing c) Operational activities will entail: a. Seedbed Preparation b. Sowing of pasture fields c. Weed Control d. Manuring e. Soil conservation structures (terracing, strips/gabions)-Range pits, land ripping f. Silvopastoralism g. Seed harvesting h. Pasture harvesting i. Pasture feed milling		
Proponent and Address	Oloibor Ajijik Namitu Enkiteg Self Help Group Oloibor Ajijik Centre Kajiado.		

ESIA for the Proposed Rangeland Rehabilitation and Pasture Development Project for Oloibor_Ajijik_Namitu_Enkiteg Self Help Group in Oloibor Village, Imaroro Ward, Kajiado County.

April, 2021

CERTIFICATION

For and on behalf of:

Oloibor Ajijik Namitu Enkiteg Self Help Group:

This Environmental Impact Assessment (EIA) Summary Project Report was prepared in accordance with the Environmental Management and Coordination Act (EMCA) 1999, the Environmental Impact Assessment and Audit Regulations 2003 (revised 2019) and Public Notice on Processing of EIA Reports 12th March 2020 in order to meet the statutory requirements for the implementation of projects under schedule II.

I, the undersigned, confirm that the contents of this report are a true representation of the ESIA process for the Proposed Rangeland Rehabilitation and Pasture Development Project for Oloibor Ajijik Namitu Enkiteg Self Help Group in Oloibor Village, Imaroro Ward, Kajiado County.

LEAD ESIA/ EA EXPERT

JOSPHAT OMARI NEMA REG. No. 7645 P. O. BOX 1500-600 NAIROBI, KENYA

Lead Expert		Date:	
•	Signature		
Name:		Date:	
	Community Group Chairman		

ACKNOWLEDGMENT

We, the ESIA study team Mr. Josphat Omari (Lead) and Mr. Erick Orwa (Associate) wish to acknowledge and express our profound gratitude to the Kajiado County Project Coordinating Unit (especially Mr. Athanus Chesire) of Kenya Climate Smart Agriculture Project (KCSAP) for commissioning this ESIA SPR.

We appreciate the co-operation and contributions of all the stakeholders who we interacted with during this EIA study, without their support this study would not have been successful.

We would also like to affirm our appreciation to Dr. Gilbert Muthee from the National Project Coordinating Unit, World Bank ESIA Experts especially Robert and Kimberly, not forgetting Marrian from NEMA Head Office for their guidance in the preparation of this SPR.

Finally, we wish to appreciate the contributions made by the entire community for providing us with useful information and filling out questionnaires during the field visits and public participation forum.

TABLE OF CONTENTS

EACTOIL	PPT	
	EET	
CERTIFIC	CATION	ii
ACKNOW	VLEDGMENT	. i
LIST OF T	TABLES	V
LIST OF I	FIGURES	V
LIST OF I	PLATES	. V
ABBREV	IATIONS AND ACRONYMS	vi
EXECUTI	IVE SUMMARYv	/ii
1	INTRODUCTION	. 1
1.1	KCSAP Background Information	. 1
1.2	Background Information of the Sub Project	. 1
1.3	Rationale for the Summary Project Report	. 2
1.4	Objectives of the SPR	. 2
1.5	SPR Approach and Methodology	. 3
1.5.1	Environmental screening	. 3
1.5.2	Desktop study	4
1.5.3	Physical inspection of the site and surrounding	4
1.5.4	Public participation	4
1.6	Data Analysis, Documentation and Report Structure	. 5
1.7	Responsibilities and Undertaking	. 5
2	THE LOCATION OF THE PROJECT	6
2.1	Project Location	6
2.2	Land Ownership	. 7
3	NATURE OF THE PROJECT	8
3.1	Introduction	8
3.2	Design Concept and Material	. 8

	3.2.1	Project Design	8
	3.2.2	Materials, equipment and labour	8
	3.3	Proposed Project Activities	9
	3.3.1	Planning Phase Activities	9
	3.3.2	Land preparation and Construction Phase Activities	9
	3.3.3	Operation Phase Activities	9
	3.3.4	Decommissioning Phase Activities	10
	3.4	Project Cost and Implementation Schedule	10
4		BASELINE CONDITIONS	11
	4.1	Physiographic and Natural Conditions	11
	4.1.1	Physical & Topographic Features	11
	4.1.2	Geology and Soils	11
	4.1.3	Ecological Conditions	13
	4.1.4	Climatic Conditions	13
	4.1.5	Land and Land use	14
	4.2	Socio-economic Environment	14
	4.2.1	Demographics Data	14
	4.2.2	Income and Poverty Levels	15
	4.2.3	Land Ownership & Availability	16
	4.2.4	Proposed project Awareness	16
5		PUBLIC PARTICIPATION AND STAKEHOLDER CONSULTATIONS	17
	5.1	Overview	17
	5.2	Objectives of Community and Stakeholders Consultation	17
	5.3	Methodology of Public Participation and Consultation	17
	5.3.1	Public consultation questionnaires	17
	5.3.2	Public consultation meetings	18
	5.4	Consultation and Disclosure Outputs	19
	5.5	Salient issues	20

6		POTENTIAL IMPACTS AND MITIGATION MEASURES	21
	6.1	Positive Environmental and Social Impacts	21
	6.1.1	Increasing Livestock Productivity	21
	6.1.2	Building Resilience to Climate Risks	21
	6.1.3	Improved Livelihoods and Local Economy	21
	6.1.4	Creation of Employment Opportunities for Residents of the Project Area	21
	6.1.5	Reduced Migration and Improved Food Nutrition	21
	6.1.6	Improved Vegetation Cover	22
	6.1.7	Proper Utilization of Available Space	22
	6.2	Anticipated Negative Impacts and Mitigation Measures in Preparatory Phase	22
	6.2.1	Spread of COVID-19 Amongst Community Members During Consultations	22
	6.3	Anticipated Negative Impacts and Mitigation Measures During Construction Phas	se 23
	6.3.1	Spread of Covid -19 During Construction Phase	23
	6.3.2	Impacts on Flora and Fauna	24
	6.3.3	Possible Increase in Soil Erosion	25
	6.3.4	Occupational Health and Safety Hazards	25
	6.3.5	Increased Spread of STD, HIV & AIDS	26
	6.3.6	Gender Based Violence and Sexual Harassment	26
	6.3.7	Sexual Exploitation and Abuse (SEA)	26
	6.4	Anticipated Negative Impacts and Mitigation Measures on Operational Phase	27
	6.4.1	Gender-Based Violence (GBV) at the Community Level	27
	6.4.2	Possible Human Wildlife Conflict	28
	6.4.3	Invasive Rat and Termite Species	28
	6.4.4	Loss of Seeds/Pasture to Droughts	28
	6.4.5	Pests and Diseases	29
	6.4.6	Mismanagement of Project Activities	29
	6.4.7	Occupational Health and Safety Hazards	29
	6.5	Anticipated Impacts during the Decommissioning Phase	30

	6.5.1	Loss of Pasture and Storage Facility	30
	6.5.2	Loss of Revenue and Employment Opportunities	30
	6.5.3	Increased Generation of Solid Wastes	30
	6.5.4	Occupational Health and Safety Hazards	30
7 Pl	LAN (ES	ENVIRONMENTAL AND SOCIAL MANAGEMENT AND MONITOR SM&MP)	
	7.1	Introduction	32
	7.2	Environmental and Social Management Plan	33
	7.3	Environmental Monitoring Plan	48
8		CONCLUSION AND RECOMMENDATION	51
9		REFERENCES	52
A	PPENDI	CES	54
	Append	ix 1: Certificate of Registration	54
	Append	ix 2: Community Land Resolution/ Consent Form	55
	Append	ix 3: Site Layout Plan/Drawings	59
	Append	ix 4: Copies of Filled Public Consultation questionnaires	61
	Append	ix 5: Minutes of Public Consultation meetings Held in Oloibor-Ajijik Village, Ima Ward, Kajiado East Sub County	
	Append	ix 6: List of Attendants for Public Consultation	80
	Append	ix 7: NEMA Practicing License (Lead Expert)	84
	Append	ix 8: Group Pin Certificate	85
	Append	ix 9: ESS Screening Checklist	86
	Append	ix 10: Screening Report	93

LIST OF TABLES	
Table 2.1: Project Location	. 6
Table 4.1: Population density by sub-county	14
Table 5.1: Summary of Stakeholder Consultative Meeting	18
Table 5.2: Summary of Issues Raised by the Community and Stakeholders and Response	19
Table 7.1: Environmental and Social Management Plan (ESMP)	33
Table 7.2: Environmental Monitoring Plan	48
LIST OF FIGURES	
Figure 2.1: Kajiado East Sub-County wards	. 6
Figure 2.2: Location of project site in Oloibor Village	. 7
Figure 4.1: Landforms in Imaroro ward	11
Figure 4.2: Lithology of the project area	12
Figure 4.3: Soils in the project Area	13
Figure 4.4: Sources of Income in the County	15
Figure A.1: Lead Expert addressing the meeting	75
Figure A.2: Section of Women In Attendance to the Public Baraza	76
LIST OF PLATES	
Plate 5-1: Participants follow the meeting proceedings	18
Plate 5-2: Active participation shown by women in the group	19

ABBREVIATIONS AND ACRONYMS

СВО	Community Based Organisation	
CESSCO	County Environment and Social Safeguards Officer	
CIDP	County Integrated Development Plan	
CMS	Convention on Migratory Species	
CPCU	County Project Coordination Unit	
CSR	Corporate Social Responsibility	
EAs	Environmental Assessments	
EMCA	Environmental Management and Coordination Act, 1999 Revised, 2015	
ESIA	Environmental and Social Impact Assessment	
ESMP	Environmental and Social Management Plan	
FGD	Focused Group Discussion	
GDP	Gross Domestic Product	
GHG	Greenhouse Gases	
IFC	International Finance Corporation	
KCSAP	Kenya Climate Smart Agriculture Project	
Km	Kilometers	
Km ²	Square Kilometers	
MoALF&C	Ministry of Agriculture, Livestock, Fisheries and Cooperatives	
NEAP	National Environmental Action Plan	
NEMA	National Environment Management Authority	
РСРВ	Pest Control Products Board	
PPE	Personal Protective Equipment	
SESA	Strategic Environmental and Social Assessment	
SHG	Self-Help Group	
SPR	Summary Project Report	
WRA	Water Resources Authority	

EXECUTIVE SUMMARY

Introduction

The County Government of Kajiado, through the Kenya Climate Smart Agricultural project (KCSAP), a World Bank funded project, intends to increase agricultural productivity and build resilience to climate change risks for smallholder farmers and pastoral communities. The sub project intends to support **OLOIBOR AJIJIK NAMITU ENKITEG SELF HELP GROUP** registered with the County Government of Kajiado, Department of Gender and Social Services on 28th October 2020. The group currently has 72 members (36 male and 34 female) including 7 youth, 6 widows, 2 elderly and 1 disabled drawn from Imaroro ward in Kajiado East Sub-County, Kajiado County. On grievance handling mechanism, the team has appointed village elders from OloiborAjijik, Mabati and Nalulunga villages where group membership is drawn. The group has a constitution/by laws to govern its operations. The group leadership comprises of seven democratically elected officials comprising of chairperson, secretary and treasurer. Currently, four more officials were elected from the group and three members chosen to act as Social Accountability & Integrity Commitee making a total of 11 official members.

The proposed sub-project will be located approximately 30 km off Nairobi-Namanga highway and will sit on 25 acres of land in Oloibor village, Emarti location, Imaroro ward. The sub proposed is located on Latitude 1053'10.15812" S and Longitude 37°2'44.15752" E 1575m above sea level above mean sea level.

Sub-Project Objective

The objective of the sub-project is to establish and operationalize farmer field schools in Kajiado County with support from Kenya Climate Smart Agriculture Project (KCSAP). The sub-project will increase pasture production, rehabilitate rangelands, improve community drought preparedness and resilience and improve livestock productivity thus enhanced food security. The key components are: operationalization of farmer field schools, demo site preparation, purchase of pasture seed, pasture establishment and management, harvesting and equipment and construction of storage structures. Other Objectives include;

- Self-help activities including table banking.
- Steer fattening
- Pasture conservation: Control grazing areas and establish pasture.

Rationale for ESIA

The Kenya Government policy on all new projects, programmes or activities requires that an environmental impact assessment be carried out at the planning stages of the proposed

undertaking to ensure that significant environmental and social impacts are taken into consideration during the planning/design, construction, operation and decommissioning of the facility. The project underwent screening process which identified the proposed rangeland rehabilitation and pasture development project as a *Low-Risk Project* as per the 2nd schedule of Environmental Management and Coordination Act (EMCA Cap 387) – amendment via legal notice no. 31 – April 2019. Additionally, the project also falls under category B of the World Bank Environmental and Social Safeguards Policies as defined in the Bank's Operational Procedures (OPs). The project does not lead to displacement of Project Affected Persons (PAPs) and only site-specific environmental impacts are envisaged. Therefore, the proponent – Oloibor Ajijik Namitu Enkiteg SHG– undertook Environmental and Social Impact Assessment and developed a **Summary Project Report** (**SPR**) pursuant to Regulation 7 (1) of the Environmental (Impact Assessment and Audit) (Amendment) Regulations, 2019.

SPR Approach and Methodology

The assessment approach and methodology for this exercise was structured such as to cover the requirements under the EMCA, 1999 and its subsequent regulations and World Bank environmental safeguard policies. The scope of the assessment covered impacts directly or indirectly associated with the construction, operation and the decommissioning phase of the project. The consultant used both conventional and participatory approaches in identifying the potential environmental impact and mitigating measures for the proposed project.

It involved largely an understanding of the project background, the preliminary designs and the implementation plan as well as commissioning. In addition, baseline information was obtained through physical investigation of the site and the surrounding areas, public consultation (which included discussions with local administration and the community), photography, as well as discussions with the Proponent. 37 people participated in a one-day public participation exercise that took place in Oloibor-Ajijik Village, Imaroro Ward (Emarti Location), Kajiado East Sub County where a total of 7 questionnaires were administered and completed. Some of the key stakeholders included representatives of Ministry of Agriculture at both County and subcounty level, the local administration, the religious leaders and political leaders. The process culminated in the preparation of an ESIA summary project report encompassing the details specified in the Environmental Impact Assessment/Audit Regulations (2003) and subsequent amendments (2015 &2019).

Main Issues of Concerns and Proposed Mitigation Measures

A public participation (majority being members of the Oloibor Ajijik Namitu Enkiteg Self Help Group) consisting of 37 people (24 Male and 13 Female) was held, whom 21 were above 36 years and 16 were youth to discuss the main issues of concerns and proposed mitigation measures for the proposed sub project. Although there are a number of justifications of why the

project should be developed in the area, there are various negative impacts raised that affect the environment and social wellbeing and therefore the proposed mitigation measures will reduce the adverse impacts. The project will come with numerous positive impacts that include building resilience to climate risks, increasing livestock productivity, reduced losses of livestock due to drought, improved soil conservation, improved nutrition during droughts, and employment creation among others. Some of the major negative impacts anticipated include occupational health and safety risks throughout the project, disturbance of virgin land/natural vegetation, possible wildlife-human conflict, possible spread of COVID-19, HIV/AIDS and STDs and minimal soil disturbance. The mitigation measures for the negative impacts have been detailed in this report. They include but not limited to provision of appropriate fencing to reduce human wildlife conflict, use of natural methods such as bee hives to scare wildlife, strict adherence to Ministry of Health guidelines on COVID-19 prevention among others.

Environmental Social Management and Monitoring Plan

An environmental and social management plan has been developed in this report to assist the proponent in mitigating and managing environmental and social impacts associated with the life cycle of the project. It is noteworthy that key factors and processes may change through the life of the project and considerable provisions have been made for dynamism and flexibility of the ESMP. As such, the ESMP should be subjected to periodic review for improvement purposes

It worth noting that the key responsibilities regarding compliance to the proposed ESM&MP during the construction period rest on the Contractor whereas those in operation stage will be the responsibility of the proponent. It is important that the project proponent ensures adequate monitoring and evaluation for the Contractor for non-conformances and adequate resources are allocated for operational stage. The total cost of implementing the ESMMP is **Ksh. 545,000**.

This summary project report estimates that **Ksh. 30,000** should be allocated during *preparatory phase*, **Ksh. 200,000** be allocated during *construction phase* and at least **Ksh. 185,000 per year** during operation phase. Additionally, **Ksh. 130,000** should be allocated during decommissioning phase of the project. The ESM&MP should be shared with the selected contractor(C-ESMMP) for implementation

Conclusion and Recommendation

The rangeland rehabilitation and pasture development project has raised a number issues of importance to the environment, social, health and also economic wellbeing through and an indepth assessment and evaluation of the environmental and social impacts. In addition, the project has number of negative impacts that has an adverse effect to the environment, social and economic being of the project site during the various phases of project. To enable the project to be realized then, specific mitigation measures has been proposed. The following recommendations have been proposed for the avoidance and mitigation of the adverse environmental and social impacts from the Oloibor Ajijik Namitu Enkiteg SHG project.

- The improved grass variety from KALRO should be selected that can withstand the climatic conditions, grow very fast and be available throughout the season
- A tree planting programme for the farmers to be implemented in line with KCSAP objectives of reducing greenhouse gas emissions. This can be promoted by giving tree seedlings to farmers at the start of planting season.
- The community to be trained on contour farming and strip farming to mitigate the issues of soil erosion
- Employ local techniques for prevention of human wildlife conflict by putting up beehives within the farm area and planting pepper alongside grass.
- The project through KCSAP should train the group members on proper farming methods, improved varieties and proper record/ book keeping.
- Education and awareness creation on COVID-19, HIV aids control and prevention measures including adherence to MOH guidelines
- Installation works in the proposed Project is carried out in accordance with approved designs, regulations, policies and laws;
- The proponent, supervising engineer and the contractor should work together to ensure full implementation of the ESMP for proper enhancement and mitigation of impacts emanating from the project

It therefore concluded that the positive impact outweighs the negative impacts raised and the proposed project is economically viable. Mitigation measures for the negative impacts have been given in this report and given the positive impacts anticipated from the project, the project should be allowed to proceed.

1 INTRODUCTION

1.1 KCSAP Background Information

The County Government of Kajiado, through the Kenya Climate Smart Agricultural project (KCSAP), a World Bank funded project, intends to increase agricultural productivity and build resilience to climate change risks for smallholder farmers and pastoral communities. The overall objective of KCSAP is to avail to farmers' agricultural technologies, innovations and management practices to enable them cope with the changing climate. The specific objectives are:

- 1. Sustainably increasing agricultural productivity and incomes
- 2. Adapting and building resilience to climate change; and reducing and/or
- 3. Removing greenhouse gas emissions, where possible

These objectives form part of Kenya's obligation as a signatory to the United Nations Framework Convention on Climate Change (UNFCCC). Climate smart agriculture is the pathway that leads to attainment of the national interests of food security, productivity and incomes, while at the same time reducing or sequestering greenhouse gas emissions.

The Kenya Climate Smart Agriculture Programme has developed a strategy to guide investments and implementation of activities in the context of the current agriculture sector governance structure.

In line with this, Kajiado County has proposed Rangeland Rehabilitation and Pasture Development Sub Project which are to be implemented in four sites (Engaboli- Maili Tisa, OloiborAjijik, Meshenani and Mile 46). In complying with the Kenyan development regulations, the proponent commissioned the Experts to prepare this Environmental and Social Impact Assessment (ESIA) Summary Project Report (SPR) for the Proposed Rangeland Rehabilitation and Pasture Development Project in Oloibor Village, Imaroro Ward, Kajiado County. The report provides the project background as well as an assessment of the associated beneficial and adverse environmental and social impacts of the development.

1.2 Background Information of the Sub Project

The sub-project aims at up scaling livestock productivity through rangeland rehabilitation and pasture development. **OLOIBOR AJIJIK NAMITU ENKITEG SELF HELP GROUP** is registered with the County Government of Kajiado, Department of Gender and Social Services on 28th October 2020. The group currently has 72 members (36 male and 34 female) including 7 youth, 6 widows, 2 elderly and 1 disabled drawn from Imaroro ward in Kajiado East Sub-County, Kajiado County. The CBO was formed to bring the community together in Self-help activities including table banking, Steer fattening and Pasture conservation

The activities of Oloibor Ajijik Namitu Enkiteg Group will contribute to specific objectives of the sub project, which are;

- 1) To increase pasture production in Kajiado County by 20% from baseline by August 2021
- 2) To rehabilitate at least 1000 acres of rangeland in Kajiado County by August 2021
- 3) To improve community drought preparedness and resilience by 10% from baseline in Kajiado County by August 2021
- 4) To improve livestock productivity thus enhanced food security by 20% from baseline in Kajiado County by August 2021

The key components are site preparation, pasture establishment and management, harvesting, storage and utilisation.

1.3 Rationale for the Summary Project Report

The Kenya government policy on projects, programmes or activities such as the proposed rehabilitation and pasture development project requires that an Environmental and Social Impact Assessment (ESIA) be carried out at the planning stages of projects. This is to ensure that significant impacts on the environment and social aspects are taken into consideration during the design, construction, operation and decommissioning of the project. The SPR was as a result of the recommendation of the County Director Environment (CDE) based on the screening checklist and report (*Appendix 9 and 10*), but also because NEMA Public Notice on ESIA and Legal Notice No 31 which identifies the proposed project as Low risk, thus requiring only SPR.

1.4 Objectives of the SPR

The principal objective of the SPR is to highlight the possible positive and negative environmental and social impacts expected during the establishment and operation of the proposed project, with the aim of proposing the possible mitigation measures to the negative impacts. This is in line with ensuring that such a development does not negatively impact the environment in terms of social, health, economic and physical (soil, water, plant and animals) state of the area. The SPR identified the possible environmental impacts during the construction, implementation and operational phases of the project. The exercise was carried out in accordance with the National Environmental Management Authority (NEMA) Environmental Impact Assessment and Audit Regulations and guidelines in addition to World Bank Environmental and Social Safeguard Policies.

In brief, the specific objectives of the study were to:

- i. Describe the proposed project including the technology to be used.
- ii. Collect, collate and present baseline information (Physical environment; Biological environment and Socioeconomic and cultural environment)

- iii. Identify impacts, both positive and negative, the direct, indirect, cumulative, irreversible, short- term and long-term effects anticipated; and identify mitigation measures.
- iv. Undertake analysis of alternatives by systematically comparing feasible alternatives to the proposed project
- v. Carry out stakeholders' participation and consultations to collect the concerns, expectations, and opinions of affected, concerned and interested stakeholders.
- vi. Prepare a comprehensive Environmental and Social Management Plan (ESMP)
- vii. Present results of the SPR in such a way that they can guide in informed decision-making.

1.5 SPR Approach and Methodology

The environmental and social screening was done by the County Environment and Social Safeguards Officer (CESSCO) in consultation with NEMA where the SPR was recommended (Appendix 9 and 10). Data collection was carried out by the ESIA experts through admission of questionnaires (See sample, Appendix 4), observations and photography, site visits and desktop environmental and social studies where necessary in the manner and criteria specified in Part V (section 31-41) of the Environmental Impact Assessment and Audit Regulations 2003 (revised 2019).

The report applied an inter alia approach incorporating environmental, social, cultural, economic, legal, safety and health impacts of the project. The integrated nature of the impacts review ensured all possible negative impacts were identified and adequately mitigated. Given that nature and magnitude of the proposed rangeland rehabilitation and pasture development project, a summary environmental and social impact assessment project report, was opted for, to ensure comprehensiveness and completeness of the assessment as per the guidelines. The methodology followed during the assessment was as follows:

1.5.1 Environmental screening

The environmental screening exercise was conducted during the month of December 2020 to determine whether an environmental impact assessment would be required and what level of assessment was necessary. This was done in line with the requirements of the EMCA (Cap 387), specifically the second schedule which categorizes projects into; Low Risk Projects; Medium Risk Projects and High-Risk Projects.

According to the 2nd schedule of Environmental Management and Coordination Act (EMCA Cap 387) – amendment via legal notice no. 31 – April 2019, the proposed rangeland rehabilitation and pasture development project lies within Category (1) *Low Risk Projects*. The screening process revealed that anticipated social issues would be minimal given there would be no displacement of persons and only site-specific environmental impacts will be realized. Therefore, the proponent through the Environmental Consultant undertook an Environmental Impact Assessment to submit a **Summary Project Report** (**SPR**) pursuant to Regulation 7 (1) of the Environmental (Impact Assessment and Audit) (Amendment) Regulations, 2019.

Further, World Bank project classification was also considered since the proposed Oloibor Ajijik Namitu Enkiteg SHG Rangeland rehabilitation and pasture development project will be financed by World Bank (WB) or with financial participation of, the World Bank, through the KCSAP. The WB classifies its projects into four environmental assessment categories (A, B, C, and FI) according to the likely impacts on the environment. The proposed project was found to be under World Bank Category B classification since the project impacts will be site specific, few if any of them are irreversible; and in most cases adverse effects, will be limited (some minor including minimal soil disturbance, loss of flora and fauna and health and safety impacts during construction and operational phases) and mitigatory measures can be designed. Such impacts have been clearly identified both at screening stage and in this SPR report with comprehensive mitigation measures being fully designed and described in ESM&MP.

1.5.2 Desktop study

Desktop study included documents review on the nature of the proposed activities, project documents including designs, policy and legislative framework as well as the environmental setting of the area among others. Key documents reviewed included the following: Kenya policies, strategies and guidelines; National and County Laws and regulations; applicable Multilateral Environmental Agreements (MEAs) and World Bank policies safeguards.

1.5.3 Physical inspection of the site and surrounding

Physical inspection of the proposed site which included field investigation at site and surrounding areas was done in on 10th-11th March 2020. The field investigations were meant for physical inspections of the site characteristics and the environmental status of the surrounding areas to determine the anticipated impacts from the project.

1.5.4 Public participation

Public participation via the use of public meetings & questionnaires, key stakeholder and informant interviews were carried out during the exercise. To ensure adequate public participation in the ESIA process, questionnaires were administered to: the project stakeholders, project site neighbours to the proposed rangeland rehabilitation and pasture development project in Oloibor Village and other surrounding enterprises. The information gathered was subsequently synthesized and incorporated into the EIA summary project Report.

Given the nature of the project and anticipated impacts, one (1) public meeting was conducted targeting respective members of the SHG and the neighbouring community on 10th March 2021 at Oloibor Village, Imaroro Ward where 37 participants attended (see *appendix 5*-Attendance list and *Appendix 4*-minutes of the public consultation meeting). This was done in order to incorporate the concerns and views of all persons and individuals in the project neighbourhood. Further, key informant interviews/consultations were conducted to incorporate views from key stakeholders as described in chapter 5.

1.6 Data Analysis, Documentation and Report Structure

The Environmental Impacts Assessment report was compiled from the findings in accordance with the EIA guidelines issued by NEMA for Summary Project Report. The Consultant ensured constant briefing of the proponent during the exercise.

The exercise culminated with the production and documentation of this summary project report designed to ensure that the proposed development complies with the Environmental Management and Coordination Act (EMCA, Cap 387). The report structure is organized in 8 chapters as outlined below: -

- Chapter 1: *Introduction:* Gives Background Information to the Study Describing the Objectives and the Terms of Reference.
- Chapter 2: *Location of the Project*: Description of Project Site.
- Chapter 3: *Nature of the Project:* Project Description.
- Chapter 4: *Baseline Conditions*: Outlines the Baseline Information of the Study Area.
- Chapter 5: *Public Participation and Stakeholder Consultations:* Summarizes the outcome of the Stakeholder Engagement and Public Consultations process.
- Chapter 6: *Potential Impacts and Mitigation Measures:* Environmental and Social Impact Assessment and Mitigation of Potential Impacts of the Project.
- Chapter 7: Environmental, Social Management and Monitoring Plan (ESM&MP)
- Chapter 8: *Conclusion and Recommendations:* Concludes the findings and recaps the main recommendations.

1.7 Responsibilities and Undertaking

The KCSAP Kajiado provided a technical team to provide information required by the consultant. The proponent also facilitated stakeholder engagement through public participation and provided the relevant project documents and information to enable the consultant compile the

2 THE LOCATION OF THE PROJECT

2.1 Project Location

The proposed sub-project will be located approximately 30 km off Nairobi-Namanga highway and will sit on **25** acres of land in Oloibor village, Emarti location, Imaroro ward. The project location can be well described as shown in Table 2.1 below.

Table 2.1: Project Location

Area	Project Location
County	Kajiado
Sub County	Kajiado East / Mashuuru
Ward	Imaroro
Location	Emarti
Village	Oloibor

The proposed is located on Latitude 1053'10.15812" S and Longitude 37⁰2'44.15752" E 1575m above sea level above mean sea level. Figure 2.1 below shows an administrative location of the project area.

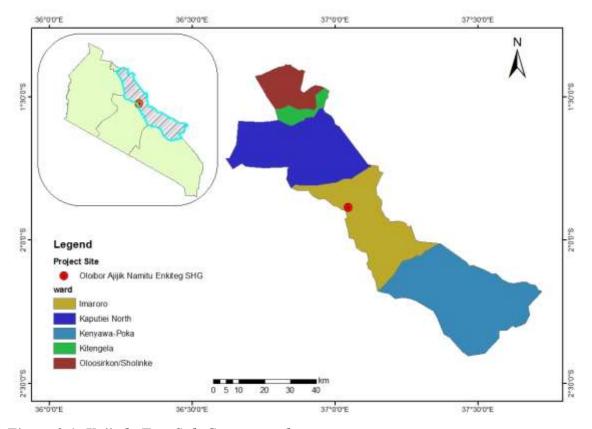


Figure 2.1: Kajiado East Sub-County wards

A geographical satellite image of the project location showing the proposed project site is shown in figure 2.2 below. The project is accessed via a murram road connecting the project site in Oloibor Village to the Nairobi-Namanga highway.



Figure 2.2: Location of project site in Oloibor Village

2.2 Land Ownership

The land proposed for the sub project belongs to the community (*Appendix 2*). Out of the total acreage (1,050 acres consisting of a livestock market, water pan and unfenced community grazing area) for community land **Oloibor Ajijik Namitu Enkiteg Self Help Group** were allowed to utilise a portion of the land (25 acres of the grazing area) to develop a pasture sub project on behalf of the community since a larger portion of the land had been idle and commonly used as a communal grazing area.

There are no environmentally sensitive areas within the project location. However, areas near water structures tend to be overgrazed during dry seasons. Due to the vastness of the grazing area, there is regeneration of grassland within a short period of rains. Culturally, the Maasai community conserve trees. The proposed sub project is an agricultural activity and the land is agricultural which is in line with the physical planning zonation.

3 NATURE OF THE PROJECT

3.1 Introduction

This chapter describes the project setting, design, materials, project activities and the cost of the sub project.

3.2 Design Concept and Material

The siting, design concept, criteria and operationalisation for the sub project were developed in accordance with the general guidelines and standards used in the design and development of rangeland rehabilitation and pasture prodution as developed by the Ministry of Agriculture and Livestock.

The supporting stuctures namely; the fence and haybarn were also developed in line with the Kenyan Building and Construction Standards (*Appendix 3*)

3.2.1 Project Design

The main activities to be undertaken under this sub-project comprise the following:

- Community mobilization & identification of beneficiaries
- Preparation including fencing, site clearance and seed bed preparation.
- Purchase of Pasture seed
- Pasture establishment and management to comprise sowing of pasture fields, weed control and manuring
- Range rehabilitation to include soil conservation structures (terracing, strips/gabions),
 Range pits, land ripping and silvopastoralism
- Harvesting of pasture and seeds
- Hay and Seed Store construction
- Utilization of stored hay.

3.2.2 Materials, equipment and labour

The project will be developed using efficient land preparation equipment and machinery. Climate smart technologies will be employed in soil ripping, pasture management and harvesting. The haybarn will employ standard construction material and procedures while ensuring that the safety of the neighboring communities and the environment is not

compromised. These materials that will be used shall be locally and internationally accepted and shall meet the threshold of public health, occupational safety and environmental standards. The main materials, equipment and workforce for this project will be;

- Soil rippers
- Hay ballers
- Tractors
- Hay brush cutters
- Timber
- Steel of difference sizes
- Wire mesh
- Welding, Cutting Materials and Equipment
- Galvanised box profile roofing sheets gauge 30
- Paving slabs (Cement, Sand and Ballast)

3.3 Proposed Project Activities

The activities associated with the proposed project have been categorized under four phases of project implementation namely; planning, Land preparation and construction of the haybarn, operation, and closure/decommissioning as discussed in the following subsection.

3.3.1 Planning Phase Activities

The main activities considered during this phase are: community mobilization, public consultation, tendering, design works process as required by procurement regulations and site hand over.

3.3.2 Land preparation and Construction Phase Activities

Construction phase entails the following activities:

- Site preparation including site clearance, seed bed preparation and fencing.
- Procurement of rangeland pasture seeds
- Pasture establishment and management
- Range rehabilitation to include soil conservation structures (terracing, strips/gabions),
 Range pits, land ripping and silvopastoralism
- Hay and Seed Store construction

3.3.3 Operation Phase Activities

The project operational activities will include: pasture management, harvesting of hay and storage at the haybarn and utilization of the stored hay.

3.3.4 Decommissioning Phase Activities

Decommissioning of the haybarn and fence will become necessary if or when the project goals change, when the need arises, climatic conditions or change of government policy as regards the land use. Once this occurs, the affected structures will be demolished. Non-reusable materials will be sold to licensed scrap metal dealers. The closure of the project will involve stopping all activities and demolishing the built structures and any fences. The affected land shall be landscaped and replanted with suitable indigenous grass and trees.

3.4 Project Cost and Implementation Schedule

The total sub project cost is estimated to Kenya Shillings 5,000,000.00.

4 BASELINE CONDITIONS

4.1 Physiographic and Natural Conditions

4.1.1 Physical & Topographic Features

According to the County Integrated Development Plan (CIDP) 2018-2022, Kajiado County is characterised by plains, valleys and occasional volcanic hills. The lowest altitude is about 500 metres above sea level at Lake Magadi while the highest is 2500 metres above sea level in Ngong Hills. The landscape within the county is divided into Rift Valley, Athi Kapiti plains and Central Broken Ground. The altitude ranges between 600 and 1740metres above sea level. The project area comprises of plain slopes and dominated by ridges (figure 4-1).

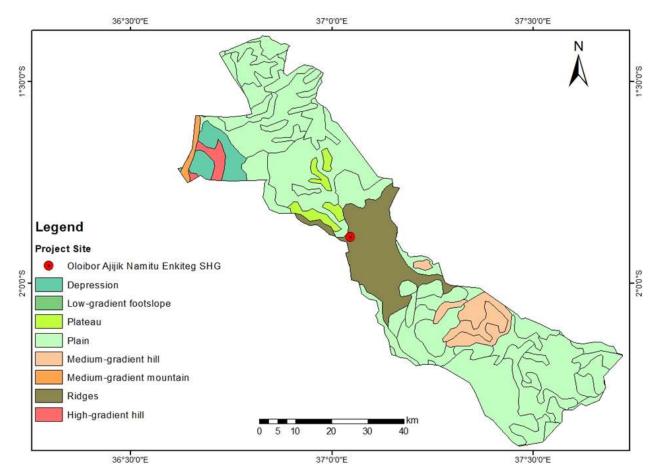


Figure 4.1: Landforms in Imaroro ward

4.1.2 Geology and Soils

The County has three geological regions namely Quaternary volcanic, Pleistocene and basement rock soils. Quaternary Volcanic soil is found in the Rift Valley. Basement System Rocks which

comprise various gneisses, cists, quartzite and crystalline limestone, are found mainly along the river valleys and some parts of the plains. The general characteristics of the project area include;

- **Soils:** The soils in the proposed project area are predominantly sandy loam which is suitable for pasture production. The land is also virgin since it had not been cultivated before.
- **Topography**: The land is sloping gently.
- **Possible social & environmental impacts:** The project will have no negative impacts. Many positive impacts will be accrued by implementing the project as it will lead to conservation of soil and water as well as providing pasture for animals hence improving household incomes.

The project area mainly comprises of basalt and intermediate igneous rocks (Figure 4-2)

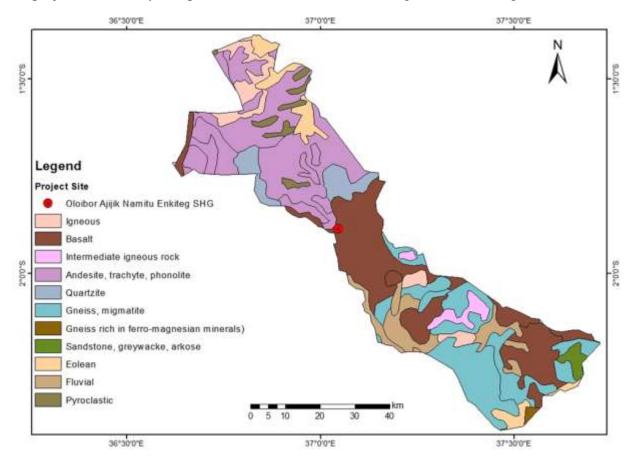


Figure 4.2: Lithology of the project area

Pleistocene soils are found in the inland drainage lake system around Lake Amboseli. Quarrying of building materials is also done within the county. The main soil type in the project area are shown in figure 4-3.

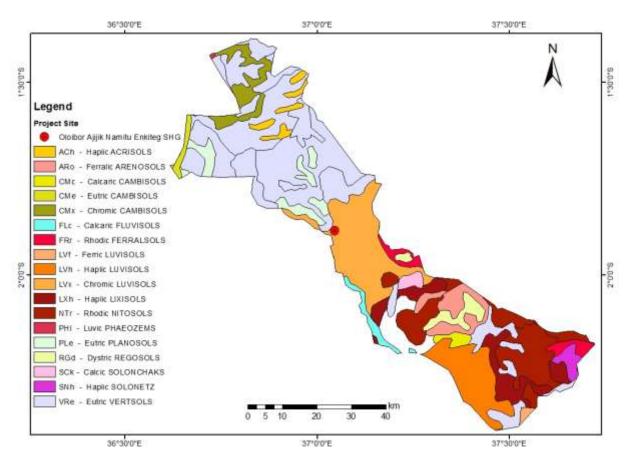


Figure 4.3: Soils in the project Area

4.1.3 Ecological Conditions

The amount of surface water varies from area to area. Vegetation type in the county is determined by altitude, soil type and rainfall. In many instances it has been modified by animal and human activity. Grazing, browsing, charcoal burning, extraction of fuel wood and cultivation are the major causes of vegetation reduction. In the lower parts of Mt. Kilimanjaro, indigenous trees have been cleared to create room for agriculture. Vegetation is scarce in low altitude areas and increases with altitude. Ground cover throughout the county varies seasonally with rainfall and grazing intensity. Canopy cover ranges from less than 1 percent on heavily settled areas to about 30 percent on steep hills. The project area lies within the Imaroro ward which is in a Midland Ranching Zone.

4.1.4 Climatic Conditions

The county has a bi-modal rainfall pattern. The short rains fall between October and December while the long rains fall between March and May. There is a general rainfall gradient that increases with altitude. The bimodal rainfall pattern is not uniform across the County. The long (March to May) rains are more pronounced in the western part of the County while the short

(October to December) rains are heavier in the eastern part. The rainfall amount ranges from as low as 300mm in the Amboseli basin to as high as 1250mm in the Ngong hills and the slopes of Mt. Kilimanjaro.

Temperatures vary both with altitude and season. The highest temperatures of about 34°C are recorded around Lake Magadi while the lowest of 10°C is experienced at Loitokitok on the eastern slopes of Mt. Kilimanjaro. The coolest period is between July and August, while the hottest months are from November to April.

4.1.5 Land and Land use

The common vegetation types predominant in Kajiado County are open grasslands, wooded and bushed grassland, bush and woodland, and forests. Among these types, bushes and woodland occupy a larger area of the County ranging about 44% of the total area of the County. This is followed by the open grasslands, and wooded and bushed grasslands, which occupy 26% each. Forests cover only 2% of the County. In the proposed project site area the land is vast with some areas covered by dense indigenous trees and natural shrubs.

4.2 Socio-economic Environment.

Socio-economics involves the collection of baseline data including demographic details, such as households, population, employment pattern, literacy, general health, tribal, communication & welfare facilities such as educational institutions, hospitals, project awareness amongst the public, infrastructure facilities, economic resources, cultural and aesthetic attributes etc. as per the requirements under environmental impact assessments.

4.2.1 Demographics Data

There is a notable variation in population density in the county. According to the Kenya National Bureau of Statistics census of 2019, the current population density of Kajiado is 51 persons per square kilometer (Kenya National Bureau of Statistics (KNBS), 2019). However, the highest population density was observed in Kajiado North due to the proximity to Nairobi and the high population densities in urban areas closer to the city. The county's population growth is 5.5 percent occasioned by migration from the neighbouring counties attracted by employment opportunities and availability of land for settlement (County Government of Kajiado, 2018). On the other hand, the lowest population densities are in Kajiado West owing to the vast land primarily inhabited by pastoralists (Table 4-1).

Table 4.1: Population density by sub-county

Sub County	Total	Male	Female	Sq. Km	Persons Per Sq. Km
Isinya	210,473	105,607	104,860	1,072	196
Kajiado Central	161,862	81,514	80,343	4,239	38
Kajiado North	306,596	150,675	155,908	111	2,773

Kajiado West	182,849	91,607	91,237	7,862	23
Loitokitok	191,846	94,613	97,225	6,337	30
Mashuuru /	64,214	33,082	31,131	2,251	29
Kajiado East					
Total Kajiado	1,117,840	557,098	560,704	21,871	51
County		·	·	·	

Source: KNBS: 2019 Kenya Population and Housing Census

Average household size for Kajiado from the KNBS 2019 census was 3.5 while the national average stands at 3.9.

4.2.2 Income and Poverty Levels

There are high levels of poverty in the county with more than 47 percent of the population living below the poverty line. Major causes of poverty include illiteracy, frequent droughts, poor infrastructure and inadequate water resources. A major effect of poverty is high rate of school dropouts as parents are unable to raise school fees. The high dropouts subsequently result to child labour as the school going children work to supplement family income. In addition, the poor often experience nutrition related conditions that contribute to high morbidity rate among children and women(County Government of Kajiado, 2014)

According to National Drought Management Authority, in Kajiado County about 52% of the population practise pastoralism, 31% are engaged in employment (formal/and informal), 12% are engaged in agro-pastoral activities while the remaining 5% practice mixed farming (NDMA, 2017) see figure 1.6. The human poverty index which gives a focus to the most deprived groups in an area in the three essential elements of a human life places the county at is 27.0 percent (County Government of Kajiado, 2018). Approximately 40% of the urban population in Kenya lives in Low Income Areas (LIAs). Considering the rapid growth rate, providing services to LIAs remains the greatest challenge of Kenya's water sector for the decades to come(Water Services Regulatory Board, 2019).

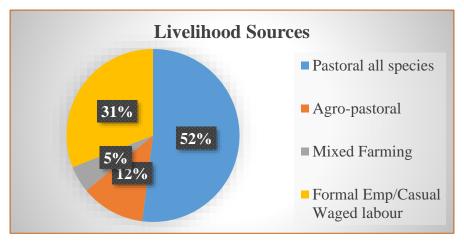


Figure 4.4: Sources of Income in the County

4.2.3 Land Ownership & Availability

The land is Kajiado can be categorized threefold: community land, private land and public land and registrable as leasehold or freehold. In many rural areas, the land has title deeds estimated at 95% while in many urban areas, the people with title deeds are as low as 5% owing to continued land sub-division for urban development. The settlement patterns are driven by socioeconomic activities including access to energy and road network.

The land proposed for the sub project belongs to a group ranch. The total land area is currently not developed. The team implementing the project are members of the group ranch with full consent to utilise the entire land for the proposed pasture sub project, however land to be put under this project is 25 acres. The team does not envisage any challenges in land acquisition for the project since all its members belong to the group ranch and some of its members are group ranch officials.

Some parts of the land proposed for the project is densely occupied by indigenous trees, natural shrubs and pastures and is not fenced. A Community Land Resolution/ Consent Form for the same has been attached in Appendix 2 of this report.

4.2.4 Proposed project Awareness

The main purpose of conducting an ESIA is to create project awareness across the various stakeholders including the community about the positive and negative impacts associating with the project. Building up from the previous studies, awareness was created for the proposed project potential impacts and on how mitigation measures will be implemented. Majority of the respondents were now aware of the proposed project and all the interviewed respondent agreed that the project should proceed to the next step.

5 PUBLIC PARTICIPATION AND STAKEHOLDER CONSULTATIONS

5.1 Overview

The Kenyan government has enshrined the need for human societies' involvement in project development in accordance to the principles of public participation as provided for in Articles 1(2), 10(2), 35, 69(1)(d), 118, 174(c) and (d), 184(1)(c), 196,201(a) and 232(1)(d) of the the 2010 Constitution of Kenya. In addition, EMCA, 1999 requires active public participation in project development. The proposed project has incorporated public consultations in order to understand the local impacts, needs and wishes of the community and eventually incorporate them into the final designs and operations of the project.

5.2 Objectives of Community and Stakeholders Consultation

The key objectives of the consultation and public participation for proposed rangeland rehabilitation and pasture development project in Oloibor Village, Imaroro Ward was to:

- i. Disseminate and inform the public and stakeholders about the project with Special reference to its key components and description
- ii. Create awareness among the public on the need for the ESIA for the proposed project
- iii. Gather comments, suggestions and concerns of the interested and affected parties
- iv. Incorporate the information collected in the ESIA
- v. Build community consensus and acceptance of the proposed project.

5.3 Methodology of Public Participation and Consultation

Public participation for the proposed project was conducted through the public consultative meetings and admission of questionnaires to allow for systematic understanding and interaction of the project beneficiaries, neighbours, local community members/surrounding enterprises and any other would be affected/interested parties.

5.3.1 Public consultation questionnaires

ESIA questionnaires were administered, to gather information from key stakeholder and the members of the public. This was done using structured questionnaires to assess the environmental and socio-economic views of the respondents. A total of 7 questionnaires were administered in the project area. Filled questionnaires administered in the project area are appended to this report (*Appendix 4*)

5.3.2 Public consultation meetings

In seeking the views of the key stakeholders, and any other would be affected/interested parties the consultant organized a consultative meeting targeting the Oloibor Ajijik Namitu Enkiteg SHG members, the administration, the proponent key staff at County and sub-county level, the ward representatives and other key staff on 10th-11th March 2021. The meeting was used to publicize the proposed rangeland rehabilitation and pasture development project and the anticipated effects and benefits.

The table 5-1 below presents a summary of the participants of the public consultative meetings. The list of participants is appended to this report (*Appendix 6*).

S/No.	Venue	Number of Participants			Date of Meeting
		Below 35 yrs	Above 35 yrs	Total	
1	Oloibor Ajijik Centre	16	21	37	10 th March 2021
Total Participants		16	21	37	

Table 5.1: Summary of Stakeholder Consultative Meeting

A total of 37 participants attended the stakeholder consultative meetings. During the public participation meeting, stakeholders had a chance to interact with the proponent represented by the EIA expert and ministry of agriculture officials at county and sub-county level. The findings are incorporated into this report and captures the issues, suggestions, concerns and recommendations from public meetings on site. The meetings were well attended and the attendees participated actively during the meetings (Plate 5-1 and 5-2).



Plate 5-1: Participants follow the meeting proceedings



Plate 5-2: Active participation shown by women in the group

5.4 Consultation and Disclosure Outputs

The appendices present the information on the public consultations undertaken under the environmental impact assessment for the proposed rangeland rehabilitation and pasture development project. This information includes a summary of responses as detailed in the minutes (*Appendix 5*). It was noted that members lauded the project and were eager to see the start of the project. However, there were a few areas that the members sought clarity. The negative and positive impacts as discussed in the public participation forum is as presented in the minutes. (*See Appendix 5*). Furthermore, a comprehensive analysis of the impacts is presented in chapter 6 of this SPR. A summary of the key concerns raised by the participants is provided in table 5-2 below:

Table 5.2: Summary of Issues Raised by the Community and Stakeholders and Response

Key Issue	Stakeholder concerns	Response
1. Net loss of tree canopy or forest type	Partrick Sinkeet Somoire alluded that the possibility of cutting down indigenous trees within the proposed project site would arise.	Local indigenous trees may be conserved where possible to limit the overall cutting of trees. Encouraging replanting of trees especially along the fence.
2. Lack of transparency /misappropriation	Johnston Latema raised concerns about the share of revenue from the sale of	Committee should be independent and

	during revenue sharing	hay.	transactions and proceeds from sale of hays. The group should also hold regular elections with documented minutes.
3.	Loss of construction materials on site due to theft	Concerns were raised by Mr. Latema that there was a possibility of loss of construction materials on site due to theft during construction	Institute a community policing mechanism to prevent loss of raw materials during construction. Also fence the area before materials are brought to site.
4.	Human-Wildlife Conflicts	The meeting attendants noted that elephants were common in the area and there was possibility of human wildlife conflicts.	It was suggested that local techniques will be applied such as the prevention mechanisms that will be include to put up beehives within the farm area and plant pepper alongside grass. This one would be included into the ESM&MP.
5.	Climate change may affect the resilience of the planted grass	Pastor Joseph Toret was concerned that climate change effects may affect the viability of seeds; posing risks during drought periods.	It was noted that the grass to be grown was to be drought tolerant and conservation agriculture be employed. The improved grass variety from KALRO would be adaptable to the climatic conditions of the area, the grass would be able to survive amid water stresses and also grow very fast depending on the varieties grown. Different varieties would be grown to ensure the grass is available throughout the season.

5.5 Salient issues

It is clear from the questionnaires received back that the proposed Rangeland rehabilitation and pasture development project at Oloibor Village will serve an important role of providing the community improved nutrition as the women will not need to move long distances to access milk where the animals migrate in search of pasture. All the residents admitted that they were interested in this project more solely for their improved income from sale of milk and hay.

6 POTENTIAL IMPACTS AND MITIGATION MEASURES

This chapter presents the assessment of the issues likely to arise as a result of implementation of the proposed sub project. The impacts are presented in-regard to their likelihood of occurrence on the physical, biological, occupational and socio-economic environments.

6.1 Positive Environmental and Social Impacts

The anticipated positive impacts include the following:

6.1.1 Increasing Livestock Productivity

The proposed project on rangeland rehabilitation and pasture development will ensure availability of pasture throughout the season thus improving farm productivity. Kenya Climate Smart Agriculture Project (KCSAP) will thus be in line with the government's Big Four Agenda which includes (1) **Food security and nutrition** (2) Affordable universal health care (3) Affordable housing and (4) Enhancing manufacturing. The project will encourage higher agricultural production while at the same time ensuring supply of food from the farmers.

6.1.2 Building Resilience to Climate Risks

Residents of Oloibor Village and its environs will benefit from access to a pasture throughout the year. The pasture variety will be able to withstand droughts and thus enable residents' access pasture closer home. There would thus be reduced loss of livestock from lack of pasture.

6.1.3 Improved Livelihoods and Local Economy

The members of Oloibor Ajijik Namitu Enkiteg SHG will realize income through sale of milk, pasture and honey. The income will enable the women improve the livelihoods of their families. Additionally, there will be an increase in economic activity around the project area. The construction labour force will require food and other items that will be bought from the local community.

6.1.4 Creation of Employment Opportunities for Residents of the Project Area

The proposed project will provide short term and long-term employment opportunities to the local community. The construction phase will provide short-term opportunities for casual work and semi-skilled labour. During the operational phase, long-term employment opportunities will also be created which will generate income and improve their livelihoods

6.1.5 Reduced Migration and Improved Food Nutrition

The availability pasture closer to the residence will ensure that the women and children will have access to milk as the animals will not migrate in search of pasture. Therefore, the project will come along with improved nutrition for the women and children and reduced distances in search of pasture and milk.

6.1.6 Improved Vegetation Cover

During project operation phase, the grass will be fully established thus will come along with environmental benefits that include reduced erosion. Vegetation-cover also reduce the impact of floods as the presence of vegetation increase soil infiltration and reduce the magnitude of rainwater transformed to runoff.

6.1.7 Proper Utilization of Available Space

The proposed project will ensure proper utilization of the existing otherwise under-utilized space to include all the amenities necessary in Oloibor Village. In the absence of the project, the space would lie idle and generate no income to the interested SHG and revenue to the county and national government.

6.2 Anticipated Negative Impacts and Mitigation Measures in Preparatory Phase 6.2.1 Spread of COVID-19 Amongst Community Members During Consultations

During implementation of the ESIA, various consultative activities will be undertaken. For efficient and meaningful engagement, a wide range of individual participants, groups in the local community and other stakeholders will be involved. The types of consultations to be used to pass information shall be through public Baraza's, electronic means shall be used where possible and one-on-one basis meetings while observing the COVID-19 mitigation measures to ensure safety stakeholders involved, the community at large and the client. The consultations will involve verification of PAPs covering the occupants of the affected area and vulnerable persons and groups; awareness raising, sensitization of PAPs and gauging attitude to the project; training and capacity building for livelihoods restoration, grievance redress, execution of site - specific surveys among others. If carried out conventionally, these activities would lead to close interaction between the proponent and the community members leading to a high risk of spreading COVID-19 amongst community members during the consultation process.

To minimize the risk of spread of COVID-19 amongst community members, alternative means of consultation will be required as mitigation measures to ensure social distancing and appropriate communication measures. The mitigation measures will be supervised by a communications/ stakeholder engagement / social safeguards expert in the project proponent's team.

Mitigation measures:

- Electronic means of consulting stakeholders and holding meetings shall be encouraged whenever feasible. One-on-one engagements for the PAPs while observing social distance and adhering to PPE wearing shall be enforced;
- Avoid concentrating of more than 15 community members at one location. Where two or more people are gathered, maintain social distancing of at least 2 meters;
- The team carrying out engagements within the communities on one-on-one basis will be provided with appropriate PPE for the number of people they intend to meet;

- Community members should be sensitised and encouraged to take vaccination against COVID-19.
- Use traditional channels of communications (TV, newspaper, radio, dedicated phonelines, public announcements and mail) when stakeholders do not have access to online channels or do not use them frequently. Allow participants to provide feedback and suggestions.
 - a) Hold meetings in small groups, mainly in form of FGDs if permitted depending on restrictions in place and subject to strict observance of physical distancing and limited duration.
 - b) In situations where online interaction is challenging, disseminate information through digital platform (where available) like Facebook and WhatsApp & Chart groups.
 - c) Ensure online registration of participants, distribution of consultation materials and share feedback electronically with participants.

6.3 Anticipated Negative Impacts and Mitigation Measures During Construction Phase

6.3.1 Spread of Covid -19 During Construction Phase

During construction phase, there is a possibility for the spread of Covid-19 among workers as there will be an influx of people from different backgrounds/ locations.

Mitigation measures:

- The Contractors will develop a Standard Operating Procedure 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;
- Mandatory provision and use of appropriate Personal Protective Equipment (PPE) shall be required for all project personnel including
- Avoid concentrating of more than 15 workers at one location. Where there are two or more people gathered, maintain social distancing at least 2 meters. All workers and visitors accessing worksites every day or attending meetings shall be subjected to rapid Covid-19 screening which may include temperature check and other vital signs;
- The project shall put in place means to support rapid testing of suspected workers for covid-19;
- Install handwashing facilities with adequate running water and soap, or sanitizing
 facilities at entrance to work sites including consultation venues and meetings and
 ensure they are used;
- Ensure routine sanitization of shared social facilities and other communal places routinely including wiping of workstations, door knobs, hand rails etc
- Availability of SOP(s), Training material, PPE, sanitising facilities etc.
- Community members should be sensitised and encouraged to take vaccination against COVID-19.

ESIA for the Proposed Rangeland Rehabilitation and Pasture Development Project for Oloibor_Ajijik_Namitu_Enkiteg Self Help Group in Oloibor Village, Imaroro Ward, Kajiado County.

April, 2021

6.3.2 Impacts on Flora and Fauna

Existing vegetation especially the shrubs shall be disturbed during land preparation. This includes soil ripping, seed bed preparation and site clearance for foundation excavation for construction of the hay barn and fence. The area is relatively flat with scanty vegetation.

Mitigation Measures

The following measures for mitigating against adverse impacts on flora and fauna are recommended;

- Precise points for pole erection should be identified to ensure minimal shrub cutting along the proposed fence
- Selective clearance to avoid cutting of indigenous trees where unnecessary
- Replanting of trees along the fence edges

6.3.3 Possible Increase in Soil Erosion

During public consultation and field investigation exercise, it was noted that the area was known to be prone to soil erosion. Therefore, land preparation that will pave way for rangeland rehabilitation and pasture development will come along with soil disturbance that may exacerbate soil erosion.

Mitigation Measures

The following measures for mitigating against adverse increase in soil erosion are recommended;

- Training farmers/group members on good agricultural practices
- Practicing conservation tillage and reseeding to ensure minimal soil disturbance
- Adopt contour and strip farming
- Identify map, design and construct of soil control structures e.g., terraces, diversion ditches in possible hotspots

6.3.4 Occupational Health and Safety Hazards

During construction the movement of construction materials may result in accidents if good supervision is not provided. Accidental cuts and bruises are common among construction workers as a result of the use of machinery and hand tools. These may also occur during decommissioning and operational stages of project whereby safety risks resulting from any leftover electrical cables, uncovered manholes and steel structures which are potential causatives of physical injury to passers-by if this phase is not well handled.

Mitigation:

- Use of standard operating procedures for all machinery and equipment
- Ensure Material Safety Data Sheets (MSDS) for all chemicals used in the field are provided
- Provide appropriate personal protective equipment (PPE).
- Redesign manual processes and routine work tasks to reduce heavy lifting/repetitive activities.
- Train workers in general safety procedures including first aid.
- Use designated routes for machinery and personnel

6.3.5 Increased Spread of STD, HIV & AIDS

The residents of Oloibor Village expressed concern that there is likely increase in incidences of health impacts such as sexually transmitted diseases including HIV & AIDS especially during construction of the project. They noted that possible illicit behaviours such as prostitution may increase leading to spread of STD, HIV/AIDS due to influx of workers and perceived 'quick money' from the project.

Mitigation

The following should be implemented to mitigate spread of STD, HIV & AIDS:

- Contractor to develop appropriate awareness content and implement awareness sessions for workers on HIV/AIDs and other STDs. This can be done through the use of educative posters and tool box meetings.
- Ensure an adequate and accessible provision of condoms to workers both male and female.
- Contractors to develop a code of conduct and ensure it's signed by all workers with physical presence on site as well as within the project area.

6.3.6 Gender Based Violence and Sexual Harassment

This impact is triggered during Project Construction Phase when the Contractor fails to comply with the gender inclusivity requirements in hiring of workers and entire Project Management as per required by Gender Policy 2011 and 2/3 gender rule.

Mitigation

- Ensure clear human resources policy against sexual harassment that is aligned with national law
- Integrate provisions related to sexual harassment in the employee COC
- Ensure appointed human resources personnel to manage reports of sexual harassment according to policy
- The Contractor shall require his 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
- The contractor will implement provisions that ensure that gender -based violence at the community level is not triggered by the Project, including:
- Effective and on-going community engagement and consultation, particularly with women and girls;
- Review of specific project components that are known to heighten GBV risk at the community level, e.g., compensation schemes; employment schemes for women; etc.

6.3.7 Sexual Exploitation and Abuse (SEA)

This impact refers to sexual exploitation and abuse 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. Given that the project will be smaller in nature, it is anticipated that the mitigation will be through management and coordination to include integration of SEA in job descriptions,

employments contracts, performance appraisal systems, etc.; development of contract policies related to SEA, including whistle blower protection and investigation and disciplinary procedures; training for all project management; management of coordination mechanism for case oversight, investigations and disciplinary procedures; supervision of dedicated PSEA focal points in the project and trained community liaison officers.

Mitigation Measures to Risk of SEA

- 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).
- The SEA action plan will include how the project will ensure necessary steps are in place for:
- Prevention of SEA: including COCs and ongoing sensitization of staff on responsibilities related to the COC and consequences of non-compliance; project-level IEC materials:
- Response to SEA: including survivor-centered coordinated multi-sectoral referral and assistance to complainants according to standard operating procedures; staff reporting mechanisms; written procedures related to case oversight, investigation and disciplinary procedures at the project level, including confidential data management;
- Engagement with the community: including development of confidential community-based complaints mechanisms discrete from the standard GRM; mainstreaming of PSEA awareness-raising in all community engagement activities; community-level IEC materials; regular community outreach to women and girls about social risks and their PSEA-related rights;
- Management and Coordination: including integration of SEA in job descriptions, employments contracts, performance appraisal systems, etc.; development of contract policies related to SEA, including whistle blower protection and investigation and disciplinary procedures; training for all project management; management of coordination mechanism for case oversight, investigations and disciplinary procedures; supervision of dedicated PSEA focal points in the project and trained community liaison officers.

6.4 Anticipated Negative Impacts and Mitigation Measures on Operational Phase

6.4.1 Gender-Based Violence (GBV) at the Community Level

This impact refers to gender-based violence that women and girls may experience as a result of Project implementation. This includes, for example, an increase in intimate partner violence (IPV) when compensation schemes that share funds equally among husband and wife at the household level do not provide adequate sensitization and safety measures to reduce potential for increased tensions due to females receiving funds. This also refers to other GBV-related risks incurred as a result of income received from sale of hay and pasture seeds that do not adequately consult men in the community.

Mitigation Measures to Risk of GBV at the community level

Develop and implement provisions that ensure that gender-based violence at the community level is not triggered by the Project, including:

- effective and on-going community engagement and consultation, particularly with women and girls;
- review of specific project components that are known to heighten GBV risk at the community level, e.g., compensation schemes; employment schemes for women; sale of hay and pasture seeds; etc.
- Specific plan for mitigating these known risks, e.g., sensitization around genderequitable approaches to compensation and employment
- Ensure adequate referral mechanisms are in place if a case of GBV at the community level is reported related to project implementation.

6.4.2 Possible Human Wildlife Conflict

The establishment of pasture in the area would likely attract wild animals in search of the same. This is likely to trigger human wildlife conflicts in the form of attacks by wild animals e.g., elephants given that elephants are common wildlife within the project area.

Mitigation:

- Prevention of human wildlife conflict by putting up beehives within the farm area
- Local techniques including planting pepper alongside grass.

6.4.3 Invasive Rat and Termite Species

A lot of grass encourages rat reproduction, this, in turn, reduces plant nutrients and affects livestock growth. Additionally, the possibility of termites affecting harvested grass stored in stores could be a major challenge

Mitigation:

- Introduce rat traps where necessary
- Biological control through cats
- Use of treated timber for construction materials
- Treat the foundation with anti-termite

6.4.4 Loss of Seeds/Pasture to Droughts

It is notable that the weather patterns vary from season to season, therefore there exists a possibility of exposure of planted pasture to extreme drought causing the pasture to die off before establishment.

Mitigation Measures

The following measures for mitigating against adverse impacts are recommended;

• The improved grass variety from KALRO should be selected that can withstand the existing climatic conditions.

• Use modern technologies in seeding and land preparation to ensure soil water conservation.

6.4.5 Pests and Diseases

Caterpillars have been known to invade crops/ pasture especially when young. This would be a major drawback to the goal of the project. There is thus a need to ensure the effects are mitigated/prevented.

Mitigation Measures

The following measures for mitigating against adverse impacts are recommended;

• An Integrated Pest Management System would be used to control pests i.e., introduction of pest-eating insects to counter the effects of caterpillars.

6.4.6 Mismanagement of Project Activities

During operation phase, accountability and equitable share of grass proceeds and produce will be paramount. There exists the possibility of a lack of transparency and a proper share of harvested grass if there is no strong and transparent committee/management structures leading to conflicts. Lack of adequate capacity within the group members would pose threat to project sustainability

Mitigation:

- The group to make use of existing grievance redress mechanism in case of conflicts
- The community should ensure the Social Accountability and Integrity Committee are empowered to perform their duties
- The project through KCSAP should train the group members on proper farming methods, improved varieties and proper record/ book keeping
- Having regular elections as per the constitution

6.4.7 Occupational Health and Safety Hazards

During operation, the operation of machinery and equipment will present a number of occupational health and safety risks. Significant hazards will result from machinery operation. This includes accidents and incidents that range from cuts, bruises, trips, falls and slips.

Mitigation:

- Use of standard operating procedures for all machinery and equipment
- Ensure Material Safety Data Sheets (MSDS) for all chemicals used in the field are provided
- Provide appropriate personal protective equipment (PPE)
- Redesign manual processes and routine work tasks to reduce heavy lifting/repetitive activities
- Train workers in general safety procedures including first aid

• Use designated routes for machinery and personnel

6.5 Anticipated Impacts during the Decommissioning Phase

6.5.1 Loss of Pasture and Storage Facility

The termination of the project at the end of project life will bring to a close an organised pasture development project. During drought periods, the women and children left behind (homesteads) as a result of migrations in search of pasture may lose the benefits accrued from the project e.g., access to milk.

Mitigation:

• The proponent should ensure that the community members are sensitized and prepared to look for alternative source of pasture and livelihoods

6.5.2 Loss of Revenue and Employment Opportunities

During project, operation there will be revenue collection from the farm produce sale and various inputs to the farming systems employed by farmers. The other source of revenue includes through market generation outside the rangeland rehabilitation and pasture development project. The impact is high and immediate as it is anticipated and can be mitigated by training farmers on other forms of business and means of getting pasture.

Mitigation:

• Community to be trained on alternative source of revenue and jobs

6.5.3 Increased Generation of Solid Wastes

Decommissioning activities will generate various solid wastes ranging from debris, wrappings, concrete, corrugated iron, steel rods, rafters, purlins etc. Poor handling and disposal of such waste will lead to environmental pollution.

Mitigation:

- Careful dismantling to ensure materials remain as re-usable as possible
- Selling or donating the re-usable or recyclable materials to avoid waste
- Cleaning and proper site rehabilitation by adhering to a NEMA approved Decommissioning plan

6.5.4 Occupational Health and Safety Hazards

Mitigation:

- Use of standard operating procedures for all machinery and equipment
- Ensure Material Safety Data Sheets (MSDS) for all chemicals used in the field are provided
- Provide appropriate personal protective equipment (PPE)

ESIA for the Proposed Rangeland Rehabilitation and Pasture Development Project for Oloibor_Ajijik_Namitu_Enkiteg Self Help Group in Oloibor Village, Imaroro Ward, Kajiado County.

April, 2021

- Redesign manual processes and routine work tasks to reduce heavy lifting/repetitive activities
- Train workers in general safety procedures including first aid
- Use designated routes for machinery and personnel

7 ENVIRONMENTAL AND SOCIAL MANAGEMENT AND MONITORING PLAN (ESM&MP)

7.1 Introduction

The project proponent acknowledges that the proposed project activities will have some impacts on the biophysical environment, health and safety, and socio-economic well-being of Oloibor Village residents, traders, rangeland rehabilitation and pasture development project occupants and other business community stakeholders. Thus, the main focus will be on reducing the negative impacts and maximizing the positive impacts associated with the project activities through a programme of continuous improvement. An environmental and social management plan has been developed to assist the proponent in mitigating and managing environmental and social impacts associated with the life cycle of the project. It is noteworthy that key factors and processes may change through the life of the project and considerable provisions have been made for dynamism and flexibility of the ESMP. As such, the ESMP should be subjected to periodic review for improvement purposes.

Tables 8-1 and 8-2 form the core of this ESMP for the construction, operational and decommissioning phases of the proposed Rangeland rehabilitation and pasture development project. In general, the tables outline the potential environmental, socio-economic, health and safety risks associated with the project and details all the necessary mitigation measures, their financial costs, as well as the persons responsible for their implementation and monitoring. The ESMP should be used as checklist in the initial environmental audit of the project.

It is worth noting that the key responsibilities regarding compliance to the proposed ESM&MP during the site clearance will be proponent, construction and land preparation period will be the Contractor for hay barn construction and land preparation whereas those in operation stage will be the responsibility of the proponent. It is important that the project proponent ensures adequate monitoring and evaluation for the Contractor for non-conformances and adequate resources are allocated for operational stage.

7.2 Environmental and Social Management Plan

Table 7.1: Environmental and Social Management Plan (ESMP)

Potential Impact	Proposed Mitigation Measures	Responsibility	Monitoring means/ Frequency	Verifiable Indicators	Cost (Ksh)
Preparatory Phase					
Spread of COVID-19 Amongst Community Members During Consultations	 Electronic means of consulting stakeholders and holding meetings shall be encouraged whenever feasible. One-on-one engagements for the PAPs while observing social distance and adhering to PPE wearing shall be enforced; Avoid concentrating of more than 15 community members at one location. Where two or more people are gathered, maintain social distancing of at least 2 meters; The team carrying out engagements within the communities on one-on-one basis will be provided with appropriate PPE for the number of people they intend to meet; Community members should be sensitised and encouraged to take vaccination against COVID-19. 	Contractor / Proponent	Throughout the Preparatory Phase	 Availability of SOP(s), Training material, PPE, sanitizing facilities etc. Number of handwashing stations setup. Number of people vaccinated against covid 19. Fumigation reports. Number of signage put up informing on social distancing. Number of thermal guns in use on site. 	30,000

Potential Impact	Proposed Mitigation Measures	Responsibility	Monitoring	Verifiable Indicators	Cost (Ksh)
			means/ Frequency		
	• Use traditional channels of				
	communications (TV, newspaper,				
	radio, dedicated phone-lines, public				
	announcements and mail) when				
	stakeholders do not have access to				
	online channels or do not use them				
	frequently. Allow participants to				
	provide feedback and suggestions.				
	d) Hold meetings in small groups,				
	mainly in form of FGDs if				
	permitted depending on				
	restrictions in place and subject				
	to strict observance of physical				
	distancing and limited duration.				
	e) In situations where online				
	interaction is challenging,				
	disseminate information through				
	digital platform (where				
	available) like Facebook and				
	WhatsApp & Chart groups.				
	f) Ensure online registration of				
	participants, distribution of				
	consultation materials and share				
	feedback electronically with				

Potential Impact	Proposed Mitigation Measures	Responsibility	Monitoring means/ Frequency	Verifiable Indicators	Cost (Ksh)
	participants.				
	Total Cost for P	reparatory Phase			30,000
Potential Impact	Proposed Mitigation Measures	Responsibility	Timeline	Verifiable Indicators	Cost (Ksh)
Construction Phase	e				
Spread of Covid- 19 During Construction Phase	 The Contractors will develop a Standard Operating Procedure 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; Mandatory provision and use of appropriate Personal Protective Equipment (PPE) shall be required for all project personnel including Avoid concentrating of more than 15 workers at one location. Where there are two or more people gathered, 	Contractor / Proponent	Throughout the Construction Period	 Availability of SOP(s), Training material, PPE, sanitizing facilities etc. Number of handwashing stations setup. Number of people vaccinated against covid 19. Fumigation reports. Number of signage put up informing on social distancing. Number of thermal guns in use on site. 	30,000

Potential Impact	Proposed Mitigation Measures	Responsibility	Monitoring	Verifiable Indicators	Cost (Ksh)
			means/ Frequency		
	maintain social distancing at least 2				
	meters. All workers and visitors				
	accessing worksites every day or				
	attending meetings shall be subjected				
	to rapid Covid-19 screening which				
	may include temperature check and				
	other vital signs;				
	• The project shall put in place means				
	to support rapid testing of suspected				
	workers for covid-19;				
	• Install handwashing facilities with				
	adequate running water and soap, or				
	sanitizing facilities at entrance to				
	work sites including consultation				
	venues and meetings and ensure they				
	are used;				
	• Ensure routine sanitization of shared				
	social facilities and other communal				
	places routinely including wiping of				
	workstations, door knobs, hand rails				
	etc				
	Availability of SOP(s), Training				
	material, PPE, sanitising facilities				
	etc.				

Potential Impact	Proposed Mitigation Measures	Responsibility	Monitoring means/ Frequency	Verifiable Indicators	Cost (Ksh)
	 Community members should be sensitised and encouraged to take vaccination against COVID-19. 				
Impacts on Flora and Fauna	 Precise points for pole erection should be identified to ensure minimal shrub cutting along the proposed fence Selective clearance to avoid cutting of indigenous trees where unnecessary Replanting of trees along the fence edges 	Proponent	Planning/pre- construction/site clearance	 No. and type of vegetation cleared No. and type of indigenous species re-planted Size of area cleared Size of area re-vegetated 	20,000
Possible Increase in Soil Erosion	 Training farmers/group members on good agricultural practices Practicing conservation tillage and reseeding to ensure minimal soil disturbance Adopt contour and strip farming Identify map, design and construct of soil control structures e.g., terraces, diversion ditches in possible hotspots 	Contractor and proponent	Construction/site clearance	 Presence/ absence of stockpiled excavated earth material Number of trees and grass planted. Type/Number of soil construction structures in place. Number and Type of trainings of soil conservation. No. of silt traps installed 	20,000

Potential Impact	Proposed Mitigation Measures	Responsibility	Monitoring	Verifiable Indicators	Cost (Ksh)
			means/ Frequency		
Occupational Health and Safety Hazards	 Use of standard operating procedures for all machinery and equipment Ensure Material Safety Data Sheets (MSDS) for all chemicals used in the field are provided Provide appropriate personal protective equipment (PPE). Redesign manual processes and routine work tasks to reduce heavy lifting/repetitive activities. Train workers in general safety procedures including first aid. Use designated routes for machinery and personnel 	Contractor / Proponent	Daily throughout the Construction Period	 Presence of SOPs HSE inspection reports Training reports Training attendance sheets Orientation report No. of toolbox talks conducted 	80,000
Increased Spread of STD, HIV & AIDS	 Contractor to develop appropriate awareness content and implement awareness sessions for workers on HIV/AIDs and other STDs. This can be done through the use of educative posters and tool box meetings. Ensure an adequate and accessible provision of condoms to workers both male and female. Contractors to develop a code of 	Contractor / Proponent	Throughout construction Period	 Number of awareness campaigns Presence of educative posters Presence of signed code of conduct 	20,000

Potential Impact	Proposed Mitigation Measures	Responsibility	Monitoring means/ Frequency	Verifiable Indicators	Cost (Ksh)
	conduct and ensure it's signed by all workers with physical presence on site as well as within the project area.			Michaelan alan Gan	25,000
Gender Based Violence and Sexual Harassment	 Ensure clear human resources policy against sexual harassment that is aligned with national law Integrate provisions related to sexual harassment in the employee COC Ensure appointed human resources personnel to manage reports of sexual harassment according to policy The Contractor shall require his 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 The contractor will implement provisions that ensure that gender -based violence at the community level is not triggered by the Project, 	Contractor / Proponent	Throughout construction Period	 Mitigation plan for GBV occurring at the community level as a result of project implementation Number of GBV cases happening at the community level that receive survivorcentered referral and care 	25,000

Potential Impact	Proposed Mitigation Measures	Responsibility	Monitoring	Verifiable Indicators	Cost (Ksh)
			means/ Frequency		
	 including: Effective and on-going community engagement and consultation, particularly with women and girls; Review of specific project components that are known to heighten GBV risk at the community level, e.g., compensation schemes; employment schemes for women; etc. 				
Sexual Exploitation and Abuse (SEA)	 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). The SEA action plan will include how the project will ensure necessary steps are in place for: Prevention of SEA: including COCs and ongoing sensitization of staff on 	Contractor / Proponent	Throughout construction Period	 SEA Action Plan Code of Conduct Number of staff trainings SEA FP Community Liaison trained in PSEA IEC materials for workers' sites and community Discrete SEA reporting pathway Relevant policies, e.g. investigations and discipline and 	5,000

Potential Impact	Proposed Mitigation Measures	Responsibility	Monitoring	Verifiable Indicators	Cost (Ksh)
			means/ Frequency		
	responsibilities related to the COC			whistleblower	
	and consequences of non-			protection	
	compliance; project-level IEC			Monthly minutes from	
	materials;			SEA coordination	
	• Response to SEA: including			meetings	
	survivor-centered coordinated multi-				
	sectoral referral and assistance to				
	complainants according to standard				
	operating procedures; staff reporting				
	mechanisms; written procedures				
	related to case oversight,				
	investigation and disciplinary				
	procedures at the project level,				
	including confidential data				
	management;				
	• Engagement with the community:				
	including development of				
	confidential community-based				
	complaints mechanisms discrete from				
	the standard GRM; mainstreaming of				
	PSEA awareness-raising in all				
	community engagement activities;				
	community-level IEC materials;				
	regular community outreach to				

Potential Impact	Proposed Mitigation Measures	Responsibility	Monitoring	Verifiable Indicators	Cost (Ksh)
			means/ Frequency		
	women and girls about social risks				
	and their PSEA-related rights;				
	• Management and Coordination:				
	including integration of SEA in job				
	descriptions, employments contracts,				
	performance appraisal systems, etc.;				
	development of contract policies				
	related to SEA, including whistle				
	blower protection and investigation				
	and disciplinary procedures; training				
	for all project management;				
	management of coordination				
	mechanism for case oversight,				
	investigations and disciplinary				
	procedures; supervision of dedicated				
	PSEA focal points in the project and				
	trained community liaison officers.				
	Total Cost for Co	onstruction Phase			200,000
Potential Impact	Proposed Mitigation Measures	Responsibility	Timeline	Verifiable Indicators	Cost (Ksh)
Operational Phase					
Gender-Based	Develop and implement provisions that	Contractor /	Throughout	Mitigation plan for	30,000
Violence (GBV) at	ensure that gender-based violence at the	Proponent	Operational Period	GBV occurring at the	
the Community	community level is not triggered by the			community level as a result of project	

Potential Impact	Proposed Mitigation Measures	Responsibility	Monitoring	Verifiable Indicators	Cost (Ksh)
Level	Project, including: • effective and on-going community engagement and consultation, particularly with women and girls; • review of specific project components that are known to heighten GBV risk at the community level, e.g., compensation schemes; employment schemes for women; sale of hay and pasture seeds; etc. • Specific plan for mitigating these known risks, e.g., sensitization around gender-equitable approaches to compensation and employment • Ensure adequate referral mechanisms are in place if a case of GPV at the		means/ Frequency	implementation • Number of GBV cases happening at the community level that receive survivorcentered referral and care	
	are in place if a case of GBV at the community level is reported related to project implementation.				
Human Wildlife Conflict	 Prevention of human wildlife conflict by putting up beehives within the farm area Local techniques including planting pepper alongside grass. 	Contractor / Proponent	Throughout Operational Period	 Number of beehives procured Presence of planted pepper 	100,000 (20 beehives)

Potential Impact	Proposed Mitigation Measures	Responsibility	Monitoring means/ Frequency	Verifiable Indicators	Cost (Ksh)
Invasive Rat and Termite Species	 Introduce rat traps where necessary Biological control through cats Use of treated timber for construction materials Treat the foundation with anti-termite 	Contractor / Proponent	Throughout Operational Period	 Number of rat traps installed Physical presence of termites 	10,000
Loss of Seeds/ Pasture to Droughts	 The improved grass variety from KALRO should be selected that can withstand the existing climatic conditions. Use modern technologies in seeding and land preparation to ensure soil water conservation. 	Contractor / Proponent	Throughout Operational Period	Type of grass planted	10,000 part of project cost
Production Losses as a Result of Pests and Diseases	An Integrated Pest Management System would be used to control pests i.e., introduction of pest-eating insects to counter the effects of caterpillars.	Proponent	Throughout Operational Period	Percentage of post- harvest losses	15,000
Mismanagement of Project Activities	 The group to make use of existing grievance redress mechanism in case of conflicts The community should ensure the Social Accountability and Integrity Committee are empowered to 	Proponent	Throughout Operational Period	 Presence of a Social Accountability and Integrity Committee Number of conflicts addressed 	Part of project cost

Potential Impact	Proposed Mitigation Measures	Responsibility	Monitoring means/ Frequency	Verifiable Indicators	Cost (Ksh)				
Occupational Health and Safety Hazards	 perform their duties The project through KCSAP should train the group members on proper farming methods, improved varieties and proper record/ book keeping Having regular elections as per the constitution Use of standard operating procedures for all machinery and equipment Ensure Material Safety Data Sheets (MSDS) for all chemicals used in the field are provided Provide appropriate personal protective equipment (PPE) Redesign manual processes and routine work tasks to reduce heavy lifting/repetitive activities Train workers in general safety procedures including first aid Use designated routes for machinery and personnel 	Contractor / Proponent	Throughout Operational Period	 Presence of SOPs HSE inspection reports Training reports Training attendance sheets Orientation report No. of toolbox talks conducted 	20,000				
	1								
Potential Impact	Proposed Mitigation Measures	Responsibility	Timeline	Verifiable Indicators	185,000 Cost (Ksh)				

Potential Impact	Proposed Mitigation Measures	Responsibility	Monitoring means/ Frequency	Verifiable Indicators	Cost (Ksh)
Decommissioning P	hase				
Loss of Pasture and Storage Facility	The proponent should ensure that the community members are sensitized and prepared to look for alternative source of pasture and livelihoods	KCSAP / Proponent	During Project Decommissioning	 Number of sensitization meetings on sensitization on alternative livelihoods Number of proposed alternative livelihoods 	80,000 (Future estimates)
Loss of Revenue and Employment Opportunities	Community to be trained on alternative source of revenue and jobs	KCSAP / Proponent	During Project Decommissioning	Number of trainings / alternative livelihoods proposed	10,000
Increased Generation of Solid Wastes	 Careful dismantling to ensure materials remain as re-usable as possible Selling or donating the re-usable or recyclable materials to avoid waste Cleaning and proper site rehabilitation by adhering to a NEMA approved Decommissioning plan 	Proponent	During Project Decommissioning	 Number/ documentation on reusable solid waste materials Income generated from sale of waste material Licensed decommissioning plan from NEMA 	10,000
Occupational Health and Safety Hazards	 Use of standard operating procedures for all machinery and equipment Ensure Material Safety Data Sheets (MSDS) for all chemicals used in the 	Contractor / Proponent	Routine Inspection / During Project Decommissioning	 Presence of SOPs HSE inspection reports Training reports 	30,000

April, 2021

Potential Impact	Proposed Mitigation Measures	Responsibility	Monitoring	Verifiable Indicators	Cost (Ksh)
			means/ Frequency		
	field are provided			Training attendance	
	• Provide appropriate personal			sheets	
	protective equipment (PPE)			Orientation report	
	Redesign manual processes and			• No. of toolbox talks	
	routine work tasks to reduce heavy			conducted	
	lifting/repetitive activities				
	• Train workers in general safety				
	procedures including first aid				
	Use designated routes for machinery				
	and personnel				
	Total Cost for Operational Pl	nase			130,000

7.3 Environmental Monitoring Plan

Table 7.2: Environmental Monitoring Plan

				l~		L	L		
Key	Parameters	Points to be	Frequency	Sampling	Total	Total Cost	Lab Materials	Responsibility	Relevant
Component	to be	monitored	of	Points	samples	(Ksh.)	and		legislation/g
•	monitored		monitoring		_		Equipment/Other		guidelines
			g				Requirements		8
E	al Tagrang						requirements		
Environment		T	L	T ₌	1-	T	T	L	T===
Soil Erosion	No of	On the field	Monthly	2	2	5000	Universal soil loss	Proponent	Water Quality
	terraces build						Sediment load in		Regulations
	Methods of						run-off		(2006)
	land								
	preparation								
	employed								
	Vegetation								
	cover								
	Soil loss								
Air Quality	Noise &	Inside and	During land	Minimum 2	5	5,000	Noise Meter	Contractor and	Noise and
	excessive	right outside	preparation,				Air quality	Proponent	Excessive
			harvesting				monitor		Vibration
			and Store						Pollution
	and Dast		construction						Control)
			_						,
			and						Regulations,
			operations						2009
									Air Quality
									Regulations
									,2014

Aprıl,	
2021	

Key	Parameters	Points to be	Frequency	Sampling	Total	Total Cost	Lab Materials	Responsibility	Relevant
Component	to be	monitored	of	Points	samples	(Ksh.)	and		legislation/g
	monitored		monitoring				Equipment/Other		guidelines
							Requirements		
Occupational		In and	During land		N/A	50,000	Trainings (Fire,	Contractor and	OSHA,2007
Health and	accidents,	around the	preparation,				First Aid, EHS)	Proponent	
safety	incidents and	project site	harvesting				Safety Inspections		
	fatalities No	area	and Store				Incident Register		
	of trainings		construction						
	conducted		and						
	Risk		operations						
	assessments								
	done								
	Number of								
	persons								
	trained								
	Number of								
	HSE								
	meetings								
	carried out								
Social Issues									
Human	Number of	At the	As and	-	-	Total	Field personnel	Proponent	Wildlife
Wildlife	attacks by	farm/field	when they			payments for			Conservation
Conflict	wildlife	level	occur			damages/			and
	Acreage of					compensation			Management
	pasture								Act (2013)
	destroyed		_	_					

April, 2021

Key	Parameters	Points to be	Frequency	Sampling	Total	Total Cost	Lab Materials	Responsibility	Relevant
Component	to be	monitored	of	Points	samples	(Ksh.)	and		legislation/g
	monitored		monitoring				Equipment/Other		guidelines
							Requirements		
Employment	Number of	Project Site	Quarterly	During	Number of	Total	Employee registry	Contractor and	Employment
	employees			employment	new	payment for		Proponent	Act, 2007
	from local				employees	casuals			WIBA, 2007
	community								
Spread of	New	Project	Quarterly	During	Number of	30,000	DOSHS	Contractor and	OSHA,2007
Diseases and	infections of	Employees		employment	new		Designated Health	Proponent	
infections	STD, HIV &				infections		Practitioner (DHP)		
	AIDS, and								
	COVID-19								

8 CONCLUSION AND RECOMMENDATION

The rangeland rehabilitation and pasture development project by Oloibor Ajijik Namitu Enkiteg SHG has raised a number issues of importance to the environment, social, health and also economic wellbeing through and an in-depth assessment and evaluation of the environmental and social impacts. In addition, the project has number of negative impacts that has an adverse effect to the environment, social and economic being of the project site during the various phases of project. To enable the project to be realized then, specific mitigation measures has been proposed. The following recommendations for the avoidance and mitigation for the adverse environmental and social impacts from the proposed project are as highlighted.

- A tree planting programme for the farmers to be implemented in line with KCSAP objectives of reducing greenhouse gas emissions. This can be promoted by giving tree seedlings to farmers at the start of planting season.
- The improved grass variety from KALRO should be selected that can withstand the climatic conditions, grow very fast and be available throughout the season
- The community to be trained on contour farming and strip farming to mitigate the issues of soil erosion
- Employ local techniques for prevention of human wildlife conflict by putting up beehives within the farm area and planting pepper alongside grass.
- The project through KCSAP should train the group members on proper farming methods, improved varieties and proper record/ book keeping.
- Education and awareness creation on COVID-19, HIV aids control and prevention measures including adherence to MOH guidelines
- Installation works in the proposed Project is carried out in accordance with approved designs, regulations, policies and laws;
- The proponent, supervising engineer and the contractor should work together to ensure full implementation of the ESMP for proper enhancement and mitigation of impacts emanating from the project

It therefore concluded that the positive impact outweighs the negative impacts raised. Mitigation measures for the negative impacts have been given and in the end it is economically viable and therefore the project should be allowed to proceed.

9 REFERENCES

- Government of Kenya (2010). The constitution of Kenya, government printer, Nairobi, Kenya
- Government of Kenya (2000): Kenya gazette supplement Acts, Environmental Management and Coordination Act Number 8 of 1999 and 2015 Amendments (Cap 387). Government printer, Nairobi, Kenya.
- Government of Kenya (2003): Kenya gazette supplement number 56. Environmental Impact Assessment and Audit Regulations, Government Printers, Nairobi, Kenya.
- Government of Kenya (2007): The Occupational Safety and Health Act, Government Printers, Nairobi, Kenya.
- Government of Kenya (2012): The Land Act, Government Printer, Nairobi, Kenya.
- Government of Kenya (2012): The Land Registration Act, Government Printer, Nairobi
- Government of Kenya (2012): The National Land Commission Act, Government Printer, Nairobi, Kenya.
- Government of Kenya. (2019). Energy Act, 2019, government printer, Nairobi, Kenya.
- Government of Kenya. (2012). The Prevention, Protection and Assistance to Internally Displaced Persons (IDPs) and Affected Communities Act, 2012, government printer, Nairobi, Kenya
- Government of Kenya. (2012). The County Government act, 2012, government printer, Nairobi, Kenya
- Government of Kenya. (2012). The National Land policy, 2012, government printer, Nairobi, Kenya
- Government of Kenya. (2006). Museums and Heritage Act, No. 6 of 2006, government printer, Nairobi, Kenya.
- Government of Kenya. (2007). Kenya Roads Act No. 2 of 2007, government printer, Nairobi, Kenya.
- Government of Kenya. (2012). Public Health Act (Cap 242), government printer, Nairobi, Kenya.
- Government of Kenya. (2008). Vision 2030, government printer, Nairobi, Kenya.
- Government of Kenya. (2012). National Environmental Policy, government printer, Nairobi, Kenya.
- Government of Kenya. (2014). National Energy Policy, government printer, Nairobi, Kenya
- Government of Kenya. (2011). Gender Policy, government printer, Nairobi, Kenya.
- International Finance Corporation/World Bank Group (2007): General Environmental, Health, and Safety (EHS) Guidelines.
- Kenya gazette supplement Acts Land Planning Act (Cap. 303) government printer, Nairobi
- Kenya gazette supplement Acts Physical Planning and Land Use Act, 2019 government printer, Nairobi

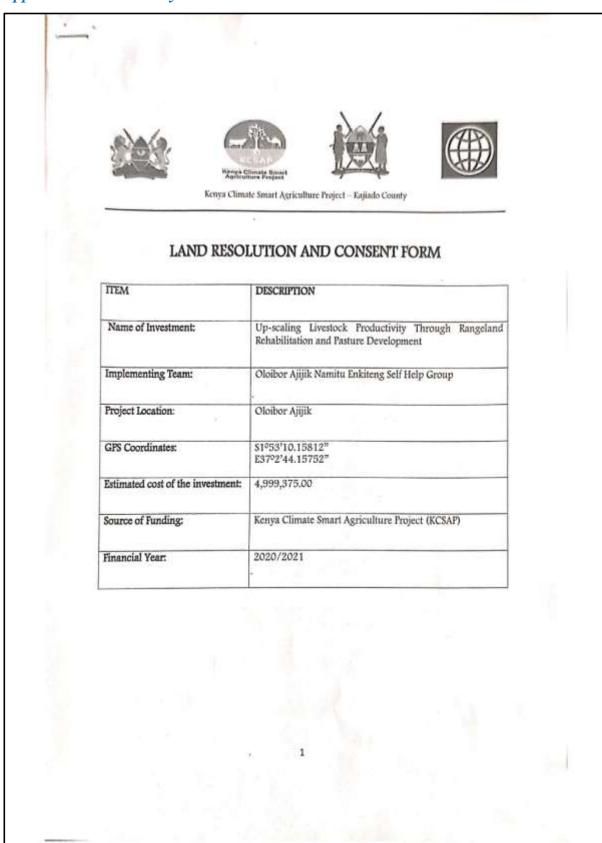
- Kenya gazette supplement Acts Water Act, 2016 government printer, Nairobi
- Kajiado County. (2018). County Integrated Development Plans (CIDPs) for 2018-2022
- World Bank (1998). Environmental Assessment Sourcebook volume II: Sectoral Guidelines. World Bank, Washington.
- World Bank. (2013). Operational Policy 4.01 Environmental Assessment available at https://policies.worldbank.org/sites/ppf3/PPFDocuments/Forms/DispPage.aspx?docid =1565&ver=current
- World Bank. (2013). Operational Policy 4.04 Natural Habitats available at https://policies.worldbank.org/sites/ppf3/PPFDocuments/Forms/DispPage.aspx?docid =1581&ver=current
- World Bank. (2013). Operational Policy- 4.12 Involuntary Resettlement available at https://policies.worldbank.org/sites/ppf3/PPFDocuments/Forms/DispPage.aspx?docid =1584&ver=current
- World Bank. (2013). Operational Policy 4.11-Physical Cultural Resources available at https://policies.worldbank.org/sites/ppf3/PPFDocuments/Forms/DispPage.aspx?docid =1583&ver=current

APPENDICES

Appendix 1: Certificate of Registration



Appendix 2: Community Land Resolution/ Consent Form



Scanned with CamScanner

TERMS OF THE AGREEMENT

- We the residents/users of the investment/group of OLOIBOR AJUIK NAMETU ENKITENG SELF HELP GROUP discussed and agreed that, OLOIBOR AJUIK COMMUNITY LAND Shall be site of the proposed PASTURE PRODUCTION PROJECT and that:
- We all are aware of the Kenya Climate Smart Project and this proposed sub-project at OLOBOR AJJIK.
- We all are aware that the land set aside for the investment is community land and no one is claiming individual ownership and no alternative claims will be made later on the land.
- 4. We all have no problem with the site of the investment
- 5. We have all agreed unanimously that the project implementation should continue,
- 6. We all shall strive to peacefully resolve any conflicts with other communities/groups/clans concerning the investment and that we would strive to peacefully co-exist and resolve any conflict arising out of the investment facility following due process provided by the laws of Kenya.
- The land to be donated was identified in consultation with all residents and users of the Land
- 8. We all understand the likely impacts of proposed activities on donated land.
- We all understand that the community could have refused this investment.
- 10. We all agreed to this investment and donation of the land without coercion, manipulation, or any form of pressure on the part of public or traditional authorities.
- 11. We all agreed that we do not require any monetary or non-monetary benefits or incentives as a condition for the donation.
- 12. The land being donated will not reduce the remaining land area to a level below that required to maintain the livelihoods of occupiers and users of land at current levels and will not require the relocation of any household.
- 13. If any structure will be moved or any access to land be limited as a result of the subproject, support will be provided to the individual so that their livelihoods are not adversely affected
- 14. The land is free of encumbrances or encroachment and is not claimed by any individual and its ownership is not contested.

We have been designated by the community/group of (OLOIBOR AJIJIK NAMITU ENKITENG SELF HELP GROUP)

2

Scanned with CamScanner

Confirm the above information to be true and that we have resolved to abide by ALL terms of this agreement. (Please attach minutes of community/group meeting, where the community/group agreed to theuse and conversion of this land for this purpose and any related documents).

S/NO.	NAME	VILLAGE/LOCATION	ID/NO,	SIGNATURE
1.	KIRANTO OLE MALEKIA	NALULUNGA	144-73 626	40.
2.	JOSEPH OLEPO TORET	HALULUNIA	27778957	Julio
3.	Turuspoi Lashor		527260	
4.	SHALTINE K. LETEMA		13611902	66.DF
5	Joel K. letela	alaiborAfijiK	9831896	- ·

For and behalf of Oloibor-AjijikCommunity;

S/NO.	NAME	ID/NO.	SIGNATURE & R /STAMP
1	ANN C. THIMISSING	9882655	Atat
2	Amos L. WELTCHE	23387291	Wetzla.

Witnessed on this 2nd Day of February in the Year 2021 by:

1. Area Chief

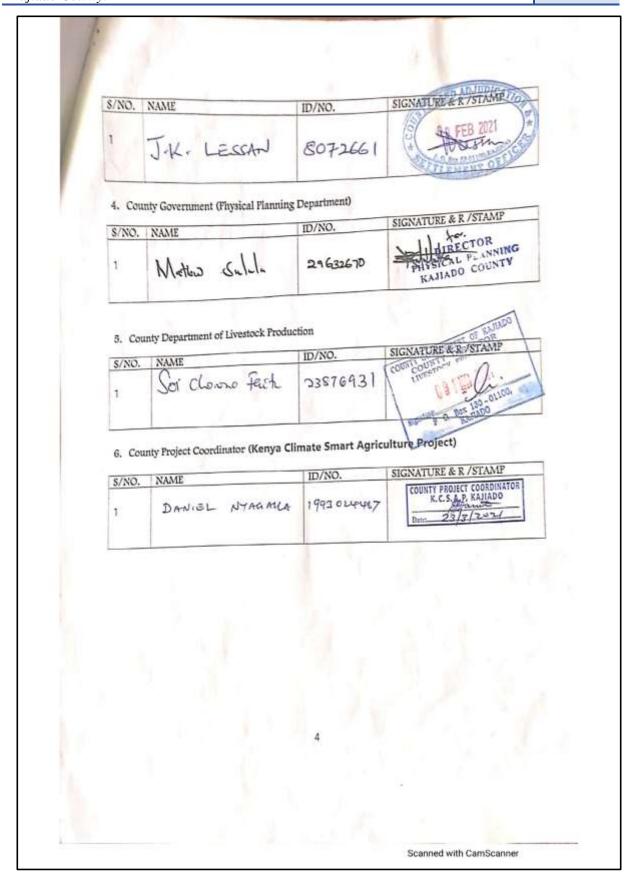
s/No.	NAME	ID/NO.	SIGNATURE & R /STAMP
1	Amos KAROKIA		EMARTI LOCATION

2. Ward Administrator

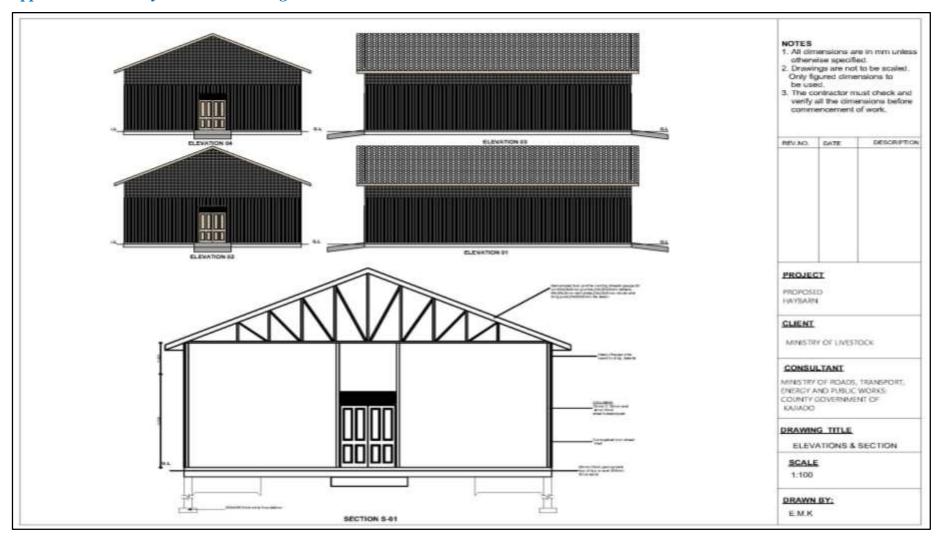
s/NO.	NAME	ID/NO.	SIGNATURE & R STAMP
1	PETER LEPARAKUO	713	10 3 FE3 2021
3. Con	umunity Land Registrar/Land Adjud		1000

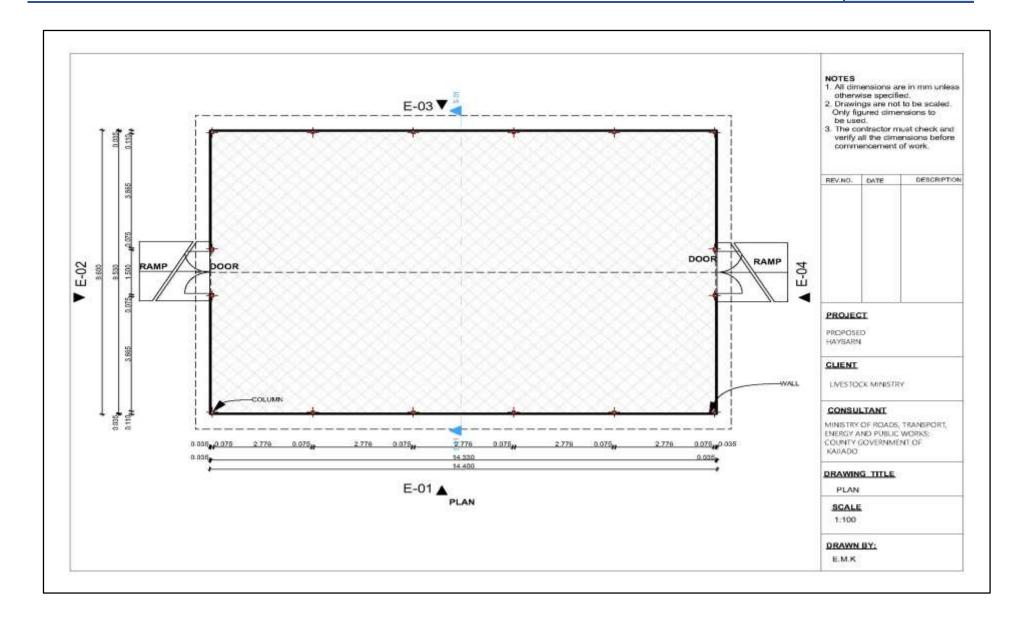
3

Scanned with CamScanner



Appendix 3: Site Layout Plan/Drawings





Appendix 4: Copies of Filled Public Consultation questionnaires



Environmental and Social Impact Assessment of the Proposed Rangeland Rehabilitation

and Pasture Development Sub-Project
SUMMARY PROJECT REPORT QUESTIONNAIRE
PROPOSED RANGELAND REHABILITATION AND PASTURE DEVELOPMENT SU
PROJECT AT OLO BOR AJIJIK Pursuant to the provisions of t
Environmental Management and Co-ordination Act (1999), and the Environmental (Impact Assessme
and Audit) Regulations (2003) revised in 2015, World Banks Safeguard Policies, Public Health Act as
Legal Supplement 2003; an Environmental and Social Site Assessment for ESIA is being conducted it
the proposed Rangeland Rehabilitation and Pasture Development Sub-Project.
RESPONDENT'S DETAILS
Name JAHET HEMATIA PARKIRE
ID No. @ 226 308 04 Mobile No. 0725910178
County KAJIADA Location EMBRIT
Sub County IMA Sharth Sub Location EtHART
Ward MAYOTO Village OLOI BOT - AJIJIE
Please note that these details are required for the purposes of authenticity in relation to the
proposed Sub Project)
Are you aware of the proposed Rangeland Rehabilitation and Yes No No
Pasture Development Sub-Project?
2. How far is you house/land from the proposed sub-project site (in kms)3. X.m.3
3. Are you familiar with the activities involved in the Rangeland Rehabilitation and Pastu
Development Sub-Project?
Yes No







	If YES, do you expect any interference as a result of the proposed sub-project implementation Yes No
	If Yes Briefly explain (Negative Impacts)
21	
4.	Do you think this proposed sub-project is suitable and compatible with the surrounding
	developments?
	Yes No No
5.	Within this area, are there similar sub-projects?
	Yes No L
	If YES how far are they from the proposed sub-project site (in Kms)
6.	What are some of the positive impacts you can attach to this sub-project?
	Settlillings in come and troing improved
	Mitristions to Livestock and jamilies
7	Are there any sensitive ecosystems within the area (e.g. swamps, water body, forest, etc.)?
	Yes No
	If yes Specify
8.	Any other comments/suggestions you would like to make in relation to this proposed sub-project.
	Bee Vering Pounty Faming
	Signature Date 10 3 12 6 21

THANK YOU FOR YOUR RESPONSE







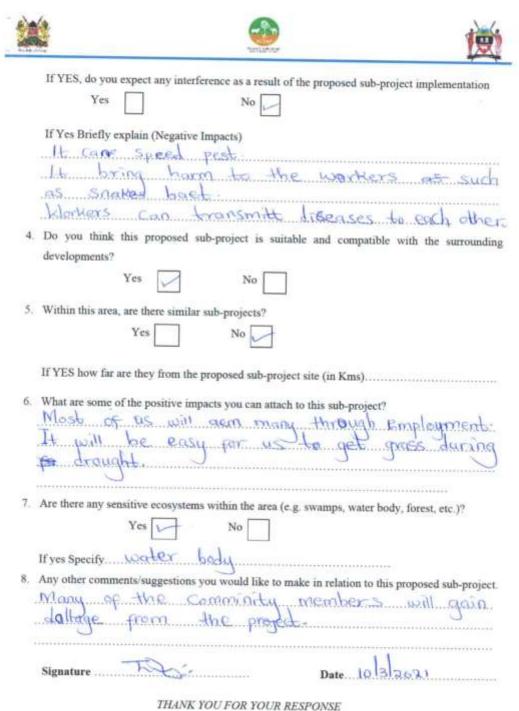


Environmental and Social Impact Assessment of the Proposed Rangeland Rehabilitation

and Pasture Development Sub-Project

SUMMARY PROJECT R	EPORT QUESTIONNAIRE
PROPOSED RANGELAND REHABILITATI	ON AND PASTURE DEVELOPMENT SUB-
PROJECT AT QLOOKET AJJIK	Yallage Pursuant to the provisions of the
	et (1999), and the Environmental (Impact Assessment
and Audit) Regulations (2003) revised in 2015. We	orld Banks Safeguard Policies, Public Health Act and
Legal Supplement 2003; an Environmental and So	cial Site Assessment for ESIA is being conducted for
the proposed Rangeland Rehabilitation and Pasture	Development Sub-Project.
RESPONDENT'S DETAILS	
Name Elizabethe Melanyie	S
ID No.	Mobile No 0708042444
County Kasiado	Location Enamarti
Sub County MAShart	Sub Location Emmarti
Ward LYNAXOTO	Village OLocibor AJJK
(Please note that these details are required for	r the purposes of authenticity in relation to the
proposed Sub Project)	
1. Are you aware of the proposed Rangeland R	ehabilitation and Yes No
Pasture Development Sub-Project?	
2. How far is you house/land from the propose	d sub-project site (in kms). I Rous
3. Are you familiar with the activities invo	lved in the Rangeland Rehabilitation and Pasture
Development Sub-Project?	
Yes No	

Page 1 of 2











Environmental and Social Impact Assessment of the Proposed Rangeland Rehabilitation

and Pasture Development Sub-Project

SUMMARY PROJECT REPORT QUESTIONNAIRE
PROPOSED RANGELAND REHABILITATION AND PASTURE DEVELOPMENT SUB- PROJECT AT DECEMBER AT IN Pursuant to the provisions of the Environmental Management and Co-ordination Act (1999), and the Environmental (Impact Assessment and Audit) Regulations (2003) revised in 2015, World Banks Safeguard Policies, Public Health Act and Legal Supplement 2003; an Environmental and Social Site Assessment for ESIA is being conducted for the proposed Rangeland Rehabilitation and Pasture Development Sub-Project.
RESPONDENT'S DETAILS
Name Daniel May Mobile No. 24 91 60 44 Mobile No. 27(459997) County KAZIANS Location EMARTI Sub County MASHUURU Sub Location EMARTI Ward 1 MARRIES Village DLOIGOR-AJIJIK
(Please note that these details are required for the purposes of authenticity in relation to the proposed Sub Project) 1. Are you aware of the proposed Rangeland Rehabilitation and Pasture Development Sub-Project? 2. How far is you house/land from the proposed sub-project site (in kms)
Yes No

Page 1 of 2







If YES, do you expect any interference as a result of the proposed sub-project implementation
Yes No
If Yes Briefly explain (Negative Impacts)

4. Do you think this proposed sub-project is suitable and compatible with the surrounding
developments?
Yes No No
5. Within this area, are there similar sub-projects?
Yes No
If YES how far are they from the proposed sub-project site (in Kms)
6. What are some of the positive impacts you can attach to this sub-project?
us it will bring pastures security.
sii) It will reduce long distances movement of calties
7. 4. 4. 4
7. Are there any sensitive ecosystems within the area (e.g. swamps, water body, forest, etc.)?
Yes No
If yes Specify. Meganeus byest
8. Any other comments/suggestions you would like to make in relation to this proposed sub-project.
It will be better if the project will be having
god Supervision
Signature Date 10/3/2021

THANK YOU FOR YOUR RESPONSE









Environmental and Social Impact Assessment of the Proposed Rangeland Rehabilitation

and Pasture Development Sub-Project

SUMMARY PROJECT REPORT QUESTIONNAIRE

PROPOSED RANGELAND REHABILITATION AND PASTURE DEVELOPMENT SUB-
PROJECT AT. ALOIBOR AJIJIK Pursuant to the provisions of the
Environmental Management and Co-ordination Act (1999), and the Environmental (Impact Assessment
and Audit) Regulations (2003) revised in 2015, World Banks Safeguard Policies, Public Health Act and
Legal Supplement 2003; an Environmental and Social Site Assessment for ESIA is being conducted for
the proposed Rangeland Rehabilitation and Pasture Development Sub-Project.
RESPONDENT'S DETAILS
Name WILFRED KRYINY MURISARON
ID No. 38.09.7131 Mobile No. 07.721.57.847
County KRILLIND O Location Experts
Sub County In Shuiku Sub Location Example
Ward Imakaka Village alaikak ATITIK
(Please note that these details are required for the purposes of authenticity in relation to the proposed Sub Project)
1. Are you aware of the proposed Rangeland Rehabilitation and Pasture Development Sub-Project? No
2. How far is you house/land from the proposed sub-project site (in kms). 3. 4. 55
3. Are you familiar with the activities involved in the Rangeland Rehabilitation and Pasture
Development Sub-Project?
Yes No

Page 1 of 2







	If YES, do you expect any interference as a result of the proposed sub-project implementation
	Yes No V
	If Yes Briefly explain (Negative Impacts)
4.	Do you think this proposed sub-project is suitable and compatible with the surrounding developments?
	Yes No No
5.	Within this area, are there similar sub-projects? Yes No
	If YES how far are they from the proposed sub-project site (in Kms)
6.	What are some of the positive impacts you can attach to this sub-project? Days had many black.
	Exerting of Joh Emplestment
7	Are there any sensitive ecosystems within the area (e.g. swamps, water body, forest, etc.)?
	Yes No
	If yes Specify.
8.	Any other comments/suggestions you would like to make in relation to this proposed sub-project.
	Bre Yerring
	- FOURTY KEERING
	Total Commencer
	Signature Date 1213)31

THANK YOU FOR YOUR RESPONSE





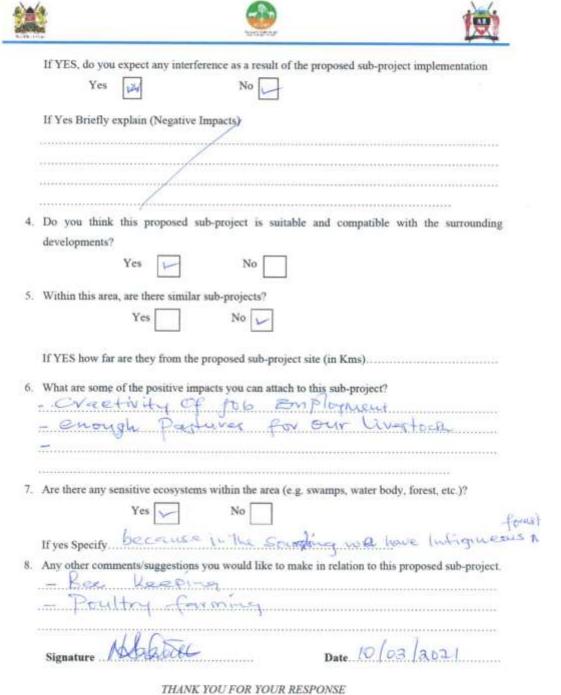




Environmental and Social Impact Assessment of the Proposed Rangeland Rehabilitation

and Pasture Development Sub-Project

SUMMARY PROJECT REPORT QUESTIONNAIRE					
PROPOSED RANGELAND REHABILITATION AND PASTURE DEVELOPMENT SUB-					
Environmental Management and Co-ordination Act (1999), and the Environmental (Impact Assessment					
and Audit) Regulations (2003) revised in 2015, World Banks Safeguard Policies, Public Health Act and					
Legal Supplement 2003; an Environmental and Social Site Assessment for ESIA is being conducted for					
the proposed Rangeland Rehabilitation and Pasture Development Sub-Project.					
RESPONDENT'S DETAILS					
Name KASHAKI MPUSEA					
ID No. 10883685 Mobile No. 0726726922					
County Kajiado Location Emonti					
Sub County Mashaury Sub Location E Martie					
Ward Marors Village Olarbor-alicie					
(Please note that these details are required for the purposes of authenticity in relation to the proposed Sub Project)					
Are you aware of the proposed Rangeland Rehabilitation and Pasture Development Sub-Project? No No No No No No No No No N					
2. How far is you house/land from the proposed sub-project site (in kms).					
3. Are you familiar with the activities involved in the Rangeland Rehabilitation and Pasture Development Sub-Project?					
Yes No No					
Page 1 of 2					



Link TOO FOR TOOK I





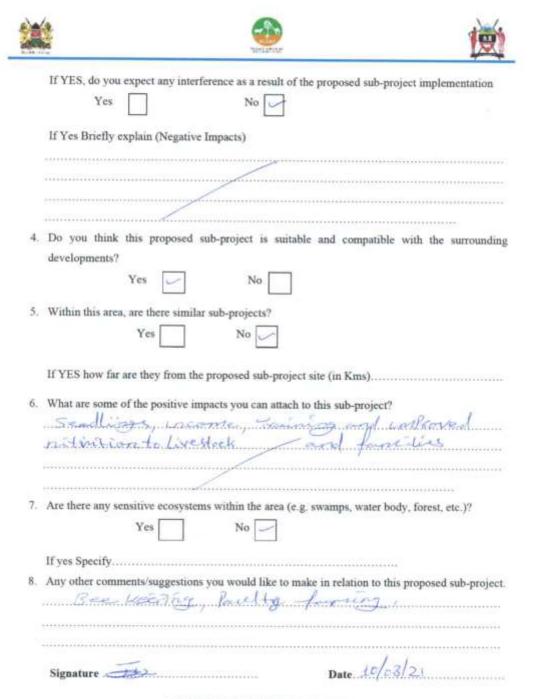




Environmental and Social Impact Assessment of the Proposed Rangeland Rehabilitation

and Pasture Development Sub-Project

SUMMARY PROJECT REPORT QUESTIONNAIRE						
PROPOSED RANGELAND REHABILITATION AND PASTURE DEVELOPMENT SUB-						
PROJECT AT Shank Bar						
Environmental Management and Co-ordination Act (1999), and the Environmental (Impact Assessment						
and Audit) Regulations (2003) revised in 2015, World Banks Safeguard Policies, Public Health Act and						
Legal Supplement 2003; an Environmental and Social Site Assessment for ESIA is being conducted for						
the proposed Rangeland Rehabilitation and Pasture Development Sub-Project.						
RESPONDENT'S DETAILS						
Name Jool K LETTELA						
ID No. 9.8313.90 Mobile No. 0721339130						
County KAJADO Location English TI						
Sub County MASHULBU Sub Location EmpRi.						
Ward INARORO Village Olombox Attack						
(Please note that these details are required for the purposes of authenticity in relation to the						
proposed Sub Project)						
1. Are you aware of the proposed Rangeland Rehabilitation and						
Pasture Development Sub-Project?						
2. How far is you house/land from the proposed sub-project site (in kms)						
3. Are you familiar with the activities involved in the Rangeland Rehabilitation and Pasture						
Development Sub-Project?						
Yes No No						
Page 1 of 2						



THANK YOU FOR YOUR RESPONSE







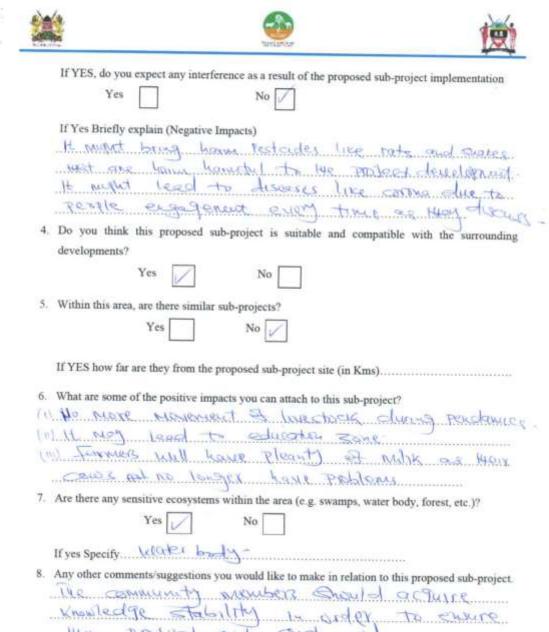


Environmental and Social Impact Assessment of the Proposed Rangeland Rehabilitation

and Pasture Development Sub-Project

SUMMARY PROJECT REPORT QUESTIONNAIRE
PROPOSED RANGELAND REHABILITATION AND PASTURE DEVELOPMENT SUB-
PROJECT AT CLOSE A STILK Pursuant to the provisions of the
Environmental Management and Co-ordination Act (1999), and the Environmental (Impact Assessment
and Audit) Regulations (2003) revised in 2015, World Banks Safeguard Policies, Public Health Act and
Legal Supplement 2003; an Environmental and Social Site Assessment for ESIA is being conducted for
the proposed Rangeland Rehabilitation and Pasture Development Sub-Project.
RESPONDENT'S DETAILS
Name PHTIRICK SONADIRE
ID No. 33088509 Mobile No. 57 14685 0809
County KNSIMDO Location EMPONETI
Sub County MASHULL Sub Location ENMARTS
Ward EsonRSRS Village State #11116
(Please note that these details are required for the purposes of authenticity in relation to the
proposed Sub Project)
1. Are you aware of the proposed Rangeland Rehabilitation and
Pasture Development Sub-Project?
2. How far is you house/land from the proposed sub-project site (in kms)
3. Are you familiar with the activities involved in the Rangeland Rehabilitation and Pasture
Development Sub-Project?
Yes No No

Page 1 of 2



THANK YOU FOR YOUR RESPONSE

Appendix 5: Minutes of Public Consultation meetings Held in Oloibor-Ajijik Village, Imaroro Ward, Kajiado East Sub County

Date: 10th March 2021; Oloibor Village, Emarti Location

Attendance

The members in attendance were mainly the committee members from Oloibor_Ajijik_Namitu_Enkiteg Self Help Group, the Area Chief Mr. Paul K. Kiriswa, Kajiado CESSCO (Mr. Mr. Athanus Chesire Komen) and the Environmental Lead Experts. The list of attendance is attached in Appendix 6.

Agenda

- 1. Opening remarks
- 2. Team & Project Introduction and Background
- 3. Comments, Questions and Answers
- 4. A.O.B

Min 1: Opening Remarks

The meeting was called to order by the group chairman Mr. Joel Letela who had mobilized the members for the meeting at 4:00 pm. He then invited a volunteer to officially open the meeting with a word of prayer. The group chairman Mr. Joel Letela then recognized the members who were present, followed by a brief session of self-introduction.



Figure A.1: Lead Expert addressing the meeting



Figure A.2: Section of Women In Attendance to the Public Baraza

Min 2: Team & Project Introduction and Background

The ESIA Expert introduced the project and the ESIA study (SPR) for the Proposed Rangeland Rehabilitation and Pasture Development Project. The group Chairman Mr. Joel Letela gave a brief about the project status. It was noted that the implementing team was registered as **Oloibor Ajijik Namitu Enkiteg Self Help Group** with the County Government of Kajiado, Department of Gender and Social Services on 28th October 2020. He also took the consultants to the physical land location where 25 acres had already been set aside. Later in the meeting alluded that the main issue they had been facing was having all their cattle grazing in far places due to pasture in seasons of drought. This has been affecting most women as they are the ones usually left behind with not food especially milk at home in times of drought. It is for this reason that this project was initiated to supplement their nutritional need in times of drought by rehabilitation and development of a 25 acres piece of land for the Oloibor Ajijik Namitu Enkiteg Self Help Group.

The Kajiado CESSCO Mr. Chesire then alluded that there was need for the committee to expand and include 3 members from the group to act as the Social Accountability and Integrity Committee. The overall committee membership was to remain an odd number. Currently the group leadership comprised of **seven** democratically elected officials comprising of chairperson, secretary and treasurer. The new changes would increase the number to 11 by an addition of four more members. The CESSCO alluded that the project was World Bank-funded from the National Government to County Government of Kajiado then the Community. The project was a KCSAP project under the Ministry of Agriculture. So far, the community had signed the land resolution form/ agreement by the Chief, Five people from the groups including the Oloibor Ajijik Namitu Enkiteg Self Help Group chairman Mr. Mr. Joel Letela and the Ward Admin.

The initial proposal was 500 acres but this was thought through and scaled-down 25 acres for four groups chosen from different sub-counties in Kajiado. The group has has a constitution/by laws to govern its operations. The group has 72 members (36 male and 34 female) including 7 youth, 6 widows, 2 elderly and 1 diasbled. On grievance handling mechanism, the team has appointed village elders from OloiborAjijik, Mabati and Nalulunga villages where group membership is drawn. The project is aimed to fulfill the three KCSAP objectives of Improved Agricultural Productivity, Build resilience in climate change situations and reduce the emission of greenhouse gasses.

Oloibor Ajijik Namitu Enkiteg Self Help Group will do 25 acres of Pasture Development. The project will give grass, fence the area, help them put up a store, provide a hand grass cutter, manual bailer and a chopper. Mr. Chesire also added that the County Government might purchase a tractor to help in the farm activities. This will be scaled up by the community through training others and enable families to put up the same lessons at an individual level. The beneficiaries would also help in educating others. He also added that this activity was important to enable licensing by Nema who will receive the report after clearance from the World Bank team.

Mr. Chesire also added that the project was initially written by the Department of Livestock Kajiado and the county has been working with KALRO on a research of 4 species of grass some exotic and this will be introduced to the community through training and provision of seedlings for the same. The training would be on different harvesting stages, storage, allow the group to choose how to sell and distribute grass among the 72 members. Mr. Chesire later welcomed the Lead Experts to proceed with the meeting.

The Lead Expert gave a brief background of the processes through EMCA and the recently amended act of 2019 to the project. He also mentioned the World Bank's environmental and social safeguard policies and how they are important in the process of ESIA. Citing examples from the recent cases that were reported on issues that were overlooked through the process e.g., three rare giraffes were electrocuted when they walked into low-hanging power lines within a conservation area in western Kenya killing one of the most endangered subspecies; Rothschild's giraffe and how the contractor mitigated issues relating to wildlife corridors along the Standard Guage Railway in Tsavo East. He also stated the need of categorizing the project as an SPR as it was allow risk project before giving them ground to express their positive and negative opinions on the proposed project. Some of the positive opinions raised were;

Min 3: Comments, Questions and Answers

Positive Impacts:

Amos Ketere (Village Chairman): The project will help the community during drought periods. The community will be able to have access to pasture hence reduce the need to have all the animals go far distances in search for pasture.

John Kelele (Pastor): The community will now have its own grass. This will be different and better compared to the grass the community had been buying from the outside communities. The grass was considered wet, dirty, less nutritious and would kill their livestock. This would also force the community source for pasture from as far as Nakuru County.

Witness Morinke: The need for pasture has forced most women travel long distances and often have to go far from their families in search for pasture. Mrs. Witness alluded that this will help women remain in their families for proper caregiving to their dependents.

Sera Toret: Emphasized that the community has suffered during drought periods and this project would be a major caution in offering resilience during drought periods.

Johnston Latema (Youth): Said that the community spend so much time looking for grass during drought periods but proposed that thy get training and proper sensitisation on proper grass farming and harvesting methods.

Latema also proposed that the community (especially the youth) be given priority of employment especially for the unskilled jobs during the project construction period.

Partrick Sinkeet Somoire: The project will open up more opportunities to other job e.g. small businesses like food kiosks.

Elizabeth Melonie: She alluded that the project would open up other business avenues such as supply of farm products (grass) and selling of seedlings.

Josphat Omari: Fencing of the farm field will keep away wild animals.

Emily Lialle: The project will also have other benefits including improved nutrition for children through provision of sufficient milk due to improved community pasture.

Loice Isiaih: Sale of grass would boost the community livelihood and improve their general welfare.

Community Concerns:

Negative Impacts:

1. **Partrick Sinkeet Somoire:** Possibility of cutting down indigenous trees within the project site would arise.

2. Johnston Latema (Youth):

- Sale of Hay may possible bring problem with revenue sharing
- Raw materials may get lost at the project site during construction
- 3. **Pastor Joseph Toret:** Climate change may affect the viability of seeds; posing risks during drought periods.

Other possible effects that would negatively affect the project includes;

- Spread of Covid 19 during consultation processes
- Invasion by rats and snake bites
- Social Harassment/ HIV Aids
- Human-Wildlife conflicts
- o Possibility of fire at the hay store and planted grass
- o Institute a community policing mechanism to prevent loss of raw materials during construction. Also fence the area before materials are brought to site.
- o Spread of Covid 19 among workers during the construction phase and
- Locust invasion

Recommendations:

Johnston Latema (Youth):

- The project should only limit the cutting of trees to the necessity locations only. Tree planting should also be recommended for those lost.
- Institute proper bylaws to guide the share of revenue (e.g., Sale of Hay). The bylaws to be also shared with Kajiado CESSCO.
- A conflict resolution team already present to be strengthened.
- A Social Accountability & Integrity Committee of three members to be instituted
- The improved grass variety from KALRO should be selected that can withstand the climatic conditions, grow very fast and be available throughout the season
- Proper sensitization on Social Harassment and HIV/AIDs. Here the church could also be used as the sensitisation channels.
- Proper training of the community on farming methods and grass preservation

Min 4: A.O.B

There being no A.O.B, the meeting adjourned at 6:20 pm with a word of prayer from one of the volunteers.

Appendix 6: List of Attendants for Public Consultation









SUMMARY PROJECT REPORT QUESTIONNAIRE

Market	Project Title: Environmental and Social Impact Assess	ment of the Proposed Rangeland Rehabilitation and Pasture
A SEC. 3	Development Sub-Project in9.49.636	EMARTI MATADA (MAMIN EMATERIA)
Sales Site	Date: 19/93/21	Venue: OLO BOR-AJIJIK

PUBLIC PARTICIPATION ATTENDANCE LIST

NO	NAME		DESIGNATION / VILLAGE	Below 35 Year	Above 35 Years	ID NO. / P No.	TELEPHONE NUMBER	SIGNATURE
9	John	Kelcle	€maba ⊭ I		-	18156165	0724214665	THE
10	Daniel	meusig	Naturagia		V	24916044	07/459971	Lorkamita
11	EMILY	tigile	Halulwa'a					
13	MPLBIG	Rhaphe	Hawlug'a					
13	+p/ROL	munana	Maluag's					
14	Janes	MIKODOA	Clorber-guin		/	26630804	0725910178	Tes
15	J06L	mutente	doiber allin					
LG	Jachson	HESTWE	Emabati			5372604	6703160022	T







AR AR

SUMMARY PROJECT REPORT QUESTIONNAIRE

Project	Title:	Environmental	and	Social	Impact	Assessment	of th	10	Proposed	Rangeland	Rehabilitation	and	Pasture
Develop	ment	Sub-Project in		JRAG.	\$ 8/C	Astivisany	Emai	e.Ti	Kets side	v.C.dam	TH EHKATI	EME.	
Date:	10/0	8/21			00000111000000	Ve	nue:	C	26.80	RATIT	, K		

PUBLIC PARTICIPATION ATTENDANCE LIST

NO	NAME	MI	DESIGNATION / VILLAGE	Below 35 Year	Above 35 Years	ID NO. / P No.	TELEPHONE NUMBER	SIGNATURE
17	Joseph	Toret	Natulyen					
15	Elizabeth	Melottie	Halulusia	/			070804014	+ 72:
19	loise	Balah	Emabati					20
30	Racchale	(emite)	Haliweig					
21	Roda	Rnephe	Naluluga	r		10402781	0701761241	THE STATE OF THE S
22	Mercy	0/680	Mululugla					
33	Janet	musq	alouber-milk					
24	pulliam	Sankale	Emabak!		-	6115780	0713508301	Stable

1	Rud 64 of Sta		Table grade	
A COUNTY		SUMMARY PROJECT	REPORT QUESTIONNAIRE	
THE PARTY OF	Project Title: Enviro Development Sub-Pro	nmental and Social Impact Assess	onent of the Proposed Rangeland I	Rehabilitation and Pasture
	Date: 10/3/303		Venue: 312180R-45131	× -

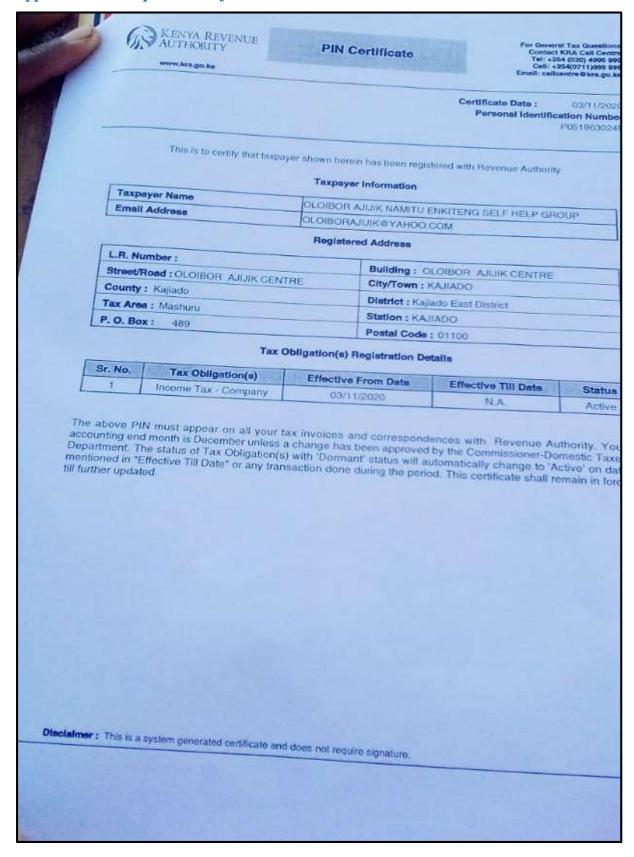
PUBLIC PARTICIPATION ATTENDANCE LIST

NO	NAME	DESIGNATION / VILLAGE	Below 35 Year	Above 35 Years	ID NO. / P No.	TELEPHONE NUMBER	SIGNATURE
25	Jantoo minond	Haluluca					
29	William Mariana	Na latus'a					
30	JoHn LEMOVIAN	DE BRAIN		1	Rusiis	5794536963	To the state of th
31	pulpied MKERSEDA	Changenalic	V		15 Trans	5742157847	Jak
32	Joseph Rities Muyora	HALMMAN		V	1349375	6716449500	100
33	PATRICK SHKET SOMOTRE	MAGULLIGA	-		3088509	07/4880839	WILES.
34	Toppet Ouran	NAS		1	20080130212	OPTOSHED .	9-
35	Athanis Chesine	KCSAP Kja		100		0721012421	Spie
36	Earl @ Gent	NES		V	24977619	0741179524	-DE

Appendix 7: NEMA Practicing License (Lead Expert)

(r.15(2))NATIONAL ENVIRONMENT MANAGEMENT AUTHORITY(NEMA) THE ENVIRONMENTAL MANAGEMENT AND CO-ORDINATION ACT **ENVIRONMENTAL IMPACT ASSESSMENT/AUDIT (EIA/EA) PRACTICING LICENSE** License No : NEMA/EIA/ERPL/14132 NEMA/EIA/EL/18547 Application Reference No: M/S JOSPHAT OMARI (individual or firm) of address P.O. Box 1500-00600, Nairobi is licensed to practice in the capacity of a (Lead Expert/Associate Expert/Firm of Experts) Lead Expert registration number 7645 in accordance with the provision of the Environmental Management and Coordination Act Cap Expiry Date: 12/31/2021 Issued Date: 2/18/2021 Thummann and Signatur (Seal) Director General The National Environment Management Authority ISO 9001: 2008 Certific

Appendix 8: Group Pin Certificate



Appendix 9: ESS Screening Checklist



NATIONAL ENVIRONMENT MANAGEMENT AUTHORITY OFFICE OF THE COUNTY DIRECTOR OF ENVIRONMENT, KAJIADO PO BOX 620-0110 KAJIADO

REF: NEMA/CDE/KJD/4/8/16/VOL 3

DATE: 4TH December, 2020

TO; COUNTY PROJECT COORDINATOR KENYA CLIMATE SMART AGRICULTURE PROJECT KAJIADO COUNTY

RE: SUMMARY PROJECT REPORT (SPR) FOR THE PROPOSED RANGELAND REHABILITATION AND PASTURE DEVELOPMENT AT VARIOUS PARTS OF KAJIADO COUNTY

Please note that Pastoral Farmers Field Schools Approach in Rangeland Rehabilitation and Pasture Development, will not require a Comprehensive Project Report (CPR) commonly referred to as Environmental Impact Assessment (EIA) due to the magnitude of the project and the need to support community livelihood.

You will be required to submit a Summary Project Report (SPR) for each site which must be done by a NEMA licensed EIA expert. Project regular monitoring will be key in ensuring the success of such project and mitigation of Impacts

MAIN DEC 2020

DANIEL MUTUTHO

FOR: COUNTY DIRECTOR OF ENVIRONMENT KAILADO COUNTY

Our Environment, Our Life, Our Responsibility

Environmental and Social Screening Checklist for Up-scaling Livestock Productivity through Integration of Pastoral Farmer Field Schools Approach in Rangeland Rehabilitation & Pasture Development

Name	of CountyKajiado	
Name	of CPCU/Monitoring Officer/ResearcherAthanus Chesire	
Sub-postal Postal Contac Cell postal Sub-post through in Ran	of CBO/Institution	
Estima	ated cost (KShs.)20,000,000.00ximate size of land area available for the sub-	
project Object 1) To in Kaj 2) To it from 3) To it Count 4) To it 10% f. 5) To it by 20%	tives of the subproject	
a) b)	ies/enterprises undertaken Training of 20 PFFS Facilitators for 21 days Operationalization of PFFSes	
d)	Demo Site Preparation Purchase of Pasture seed	
ń	Pasture establishment and mgt Range rehabilitation Harvesting & Equipment	YES ME
lt)	Construction of storage structures Purchase of utilization equipment	No. II.
	ras the sub-project chosen?	
i.	Community Integrated Action Plan development at the beginning of the KCSAP project	_
ii.	Kajiado County Integrated Development Plan (2018- 2022)	
	ed subproject durationOver 2 years	

Section B: Environmental Issues Will the sub-project:	Yes	No
Create a risk of increased soil erosion?		√.
Create a risk of increased deforestation?		√
Create a risk of increasing any other soil degradation		٧
Affect soil salinity and alkalinity?		√
Divert the water resource from its natural course/location?		V
Cause pollution of aquatic ecosystems by sedimentation and agro- chemicals, oil spillage, effluents, etc.?		V
Introduce exotic plants or animals?		1
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
Reduce the quantity of water for the downstream users?		1
Result in the lowering of groundwater level or depletion of groundwater?		V
Create waste that could adversely affect local soils, vegetation, rivers and streams or groundwater?		V
Reduce various types of livestock production?		V
Affect any watershed?		V
Focus on biomass/bio-fuel energy generation?		N.

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

Section C: Socio-economic Issues

Will the sub-project:	Yes	No
Displace people from their current settlement?		V
Interfere with the normal health and safety of the worker/employee?		V
Reduce the employment opportunities for the surrounding communities?		N.
Reduce settlement (no further area allocated to settlements)?		N
Reduce income for the local communities?		N
Increase insecurity due to introduction of the project?		V
Increase exposure of the community to communicable diseases such as HIV/AIDS?		٧
Induce conflict?		N
Have machinery and/or equipment installed for value addition?		V
Introduce new practices and habits?		V
Lead to child delinquency (school drop-outs, child abuse, child labour, etc.?		V
Lead to gender disparity?		V
Lead to poor diets?		V
Lead to social evils (drug abuse, excessive alcohol consumption, crime, etc.)?		٧

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? NB: If the answer is yes, the sub-project should not proceed. Adversely affect environmentally sensitive areas or critical habitats wetlands, woodlots, natural forests, rivers, protected areas including national parks, reserves or local sanctuaries, etc.)? NB: If the answer is yes, the sub-project should not proceed. Affect the indigenous biodiversity (flora and fauna)? NB: If the answer is yes, the sub-project should not proceed. Cause any loss or degradation of any natural habitats, either directly (through project works) or indirectly? NB: If the answer is yes, the sub-project should not proceed. Affect the aesthetic quality of the landscape? Reduce people's access to the pasture, water, public services or other resources that they depend on? Increase human-wildlife conflicts? Use irrigation system in its implementation? NB: If the answers to any of the above is 'yes', please include an ESMP with sub-project

application.
SECTION E: Pesticides and Agriculture Chemicals

Will the sub-project:	Yes	No
Involve the use of pesticides or other agricultural chemicals, or increase existing use?		٧
Cause contamination of watercourses by chemicals and pesticides?		√
Cause contamination of soil by agrochemicals and pesticides?		V
Experience effluent and/or emissions discharge?		√
Export produce? Involve annual inspections of the producers and unannounced inspections?		V
Require scheduled chemical applications?		V
Require chemical application even to areas distant away from the focus?		V
Require chemical application to be done by vulnerable group (pregnant mothers, chemically allergic persons, elderly, etc.)?		1

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

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	
VMGs livelihoods to be affected by the subproject?	_	1

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)	1	
Displace individuals, families or businesses?		1
Result in temporary or permanent loss of crops, fruit trees and pasture land?		V
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?		V
Be on monoculture cropping?		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'	 If all the above answers are 'No', there is no need for further action;
☐ There is at least one 'Yes'	24000000000000000000000000000000000000
	 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 least one 'Yes', which course of action do you recommend?

☐ CPCU and CDE will provide detailed guidance on mitigation measures as outlined in the ESMF; and

Specific advice is required from CDE, Lead Officer and CPCU regarding sub-project specific EIA(s) and also in the following area(s)

No.		
L.	All sub-project applications/proposals MUST include a completed ESMF checklist. The	
KC	SAP-CPCU and CDE will review the sub-project applications/proposals and the CDEs	
Will	sign off;	
Π.	The proposals will then be submitted to KCSAP PIU for clearance for implementation by	
	munities in the proposed subprojects.	
	TO 10000 AND 100 100 100 100 AND 100 100 100 100 100 100 100 100 100 10	
223	277822	
Exp	pert Advice	
	The National Government through the Department of Monuments and Sites of the	- 9
	ional Museums of Kenya can assist in identifying and, mapping of monuments and	
arcl	haeological sites; and	
	Sub-project specific EIAs, if recommended, must be carried out by experts registered with	
NE.	MA and be followed by monitoring and review. During the process of conducting an EIA	
the	proponent shall seek views of persons who may be affected by the sub-project. The WB	
pol	icy set out in OP 4.01 requires consultation of sub-project affected groups and disclosure	
of	EIA's conclusions. In seeking views of the public after the approval of the sub-project, the	
pro	ponent shall avail the draft EIA report at a public place accessible to project-affected	
gre	oups and local NGOs/CSOs.	
Co	ompleted by:	
	ANOTE 100 AND 1 171 ALC SEARCH MITTO	
Na	me:Athanus K. Chesire	
Por	sition:County Environment & Social Safeguards Compliance Officer	
100	mature: State: 4/12/2:20	
Sig	mature: Date: 47 Date:	
33	praisal by CDE:	
Na	me: DANIEL MUTUTHO Sition: Environmental Inspector: Ligitado County NEMA: MILLIMITE DEC 2020 MILLIAMITE DEC 2020	
	MINNE PROBLEM OF ENGROWERS	
Pos	sition: ENVIRONMENTAL INC. POLICY AND INC. DEC 2020	
et-	mature: Mantato Date: 4th 12/2020	
Sig	H O. Box 620 Email: kajvon@hama.go.ke	
		10

Project		<i>(</i> 1)		ing.
category		Characteristi		
٨	Full and extensive ESIA in not easy to pick or isolat easily done; Must have the	e and mitigation co	environmental impacts; impacts ost expensive; ESMP design not	
В	Site specific environment	al impacts envisas	ed: mitigation measures easy to	
С	pick, not costly and ESM	P design readily dor nally NO adverse e	ne; need an ESIA and future EAs	1
	First to be designed and the second			J
	157		f terminger (
	and the state of			

Appendix 10: Screening Report

Site Implementing Team: OloiborAjijikNamituEnkiteg SHG

Sub-county: Kajiado East

Ward: Imaroro

Project Location (Village): Oloibor

Contact Person: Joel Letela Telephone: 0721339130

GPS Coordinates: OloiborAjijikCentre

S1°53′10.15812″ E37°2′44.15752″

Thematic area	Description				
Site Details	 The implementing team is registered as OloiborAjijikNamituEnkiteg Self Help Group with the County Government of Kajiado, Department of Gender and Social Services on 28th October 2020. Its leadership comprises of seven democratically elected officials comprising of chairperson, secretary and treasurer. The team has a constitution/by laws to govern its operations. The team has 72 members (36 male and 34 female) including 7 youth, 6 widows, 2 elderly and 1 diasbled. On grievance handling mechanism, the team has appointed village elders from OloiborAjijik, Mabati and Nalulunga villages where group membership is drawn. 				
Project Objectives	 Self-help activities including table banking. Steer fattening Pasture conservation: Control grazing areas and has plans to establish pasture. 				
Land Ownership & Availability	 The land proposed for the sub project belongs to a group ranch. The total land area is currently not developed. The team implementing the project are members of the group ranch with full consent to utilise the entire land for the proposed pasture sub project, however land to be put under this project is 25 acres. The team does not envisage any challenges in land acquisition for the project since all its members belong to the group ranch and some of its members are group ranch officials. Some parts of the land proposed for the project is densely occupied by indigenous trees, natural shrubs and 				

6

	pastures and is not fenced.
Activities Related to the Value Chain	• Each member is a livestock farmer. They keep cattle, sheep and goats which depend on pasture as feed. They conserve pasture in their farms as standing hay.
	• The members were experienced on issues concerning pasture. As livestock farmers, they have pasture in their fields. They are therefore familiar with rangeland pasture conservation.
Environmental and Site Suitability	 Soils: The soils in the proposed project area are predominantly sandy loam which is suitable for pasture production. The land is also virgin since it had not been cultivated before. Topography: The land is sloping gently. Possible social & environmental impacts: The project will have no negative impacts. Many positive impacts will be accrued by implementing the project as it will lead to conservation of soil and water as well as providing
	pasture for animals hence improving household incomes.
Project sustainability	Community contribution: 25 acres has been allocated by the group ranch officials who are the trustees of public land in the area. The team will carry out site clearance on the parcel of land to pave way for establishment of pasture. They will also provide labour during fencing, pasture establishment, weeding and harvesting.



Screening meeting OloiborAjijik group

Proposed site - OloiborAjijik

8