

**ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT (ESIA) SUMMARY
PROJECT REPORT**

**FOR
THE PROPOSED KALES AND ASSORTED VEGETABLES AGGREGATION,
VALUE ADDITION AND MARKETING ENHANCEMENT PROJECT AT GORO
ROBA FARMERS MARKETING COOPERATIVE SOCIETY LTD
IN
SAGANTE/JALDESA WARD, SAKU SUB COUNTY, MARSABIT COUNTY**

GPS Coordinates: Latitude 2.16195, Longitude 37.89594



PROJECT PROPONENT

**GORO ROBA FARMERS COOPERATIVE SOCIETY LIMITED
P.O. BOX 10-60500, MARSABIT KENYA**

PROJECT SPONSOR

**KENYA CLIMATE SMART AGRICULTURE PROJECT
WITH SUPPORT FROM THE WORLD BANK**



MAY, 2022

CERTIFICATION
ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT (ESIA) SUMMARY
PROJECT REPORT

This Environmental and Social Impact Assessment (ESIA) Summary Project Report for the proposed **kales and assorted vegetables aggregation, value addition and marketing enhancement project** at Goro Roba Farmers' Cooperative Society Limited in **Sagante/Jaldesa Ward, Saku Sub County, Marsabit County** has been prepared in accordance with NEMA regulations under the guidance and supervision of a registered NEMA Lead Expert. It meets statutory provisions stipulated in EMCA CAP 387, the Legal Notice No. 32 and the Environmental (Impact Assessment and Audit) (Amendment) Regulations, 2019. World Bank KCSAP triggered policies OP 4.01. We hereby certify that the details herein are correct and true to the best of my knowledge.

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PROPONENT

Name: _____

SOMO WARIO

Signature _____



Date _____

30/05/2022

Designation: _____

CHAIRMAN

On behalf of: **Goro Roba Farmers' Cooperative Society Limited**

PROJECT SPONSOR

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WATO DENGE

Signature _____



Date _____

30/05/2022

Designation: County Project Coordinator

On behalf of: **Kenya Climate Smart Agriculture Project (KCSAP), Marsabit County**



ACKNOWLEDGEMENT

The Experts are sincerely grateful to the County Project Coordination Unit (CPCU), Marsabit County for the support during this assessment. We also thank the management of the Goro Roba Farmer Cooperative Society limited for their support and provision of relevant information necessary for the preparation of this report. We also thank all stakeholders for the technical input and support. Special thanks to all the partners, County Panel of Experts for their guidance during the preparation of this report.

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ABBREVIATIONS AND ACRONYMS

CSA	Climate Smart Agriculture
CDE	County Director of Environment
CTAC	County Technical Advisory Committee
CPSC	County Project Steering Committee
COVID-19	Coronavirus Disease 2019
CPCU	County Project Coordination Unit
ESIA	Environmental and Social Impact Assessment
ESMMP	Environmental and Social Management and Monitoring Plan
EMCA	Environmental Management and Coordination Act, CAP 387
GBV	Gender Based Violence
KCSAP	Kenya Climate Smart Agricultural Project
NPCU	National Project Coordination Unit
NEMA	National Environmental Management Authority
MCA	Member of County Assembly
MP	Member of Parliament
PDOs	Project Development Objectives
SEA	Sexual Exploitation and Abuse
SPR	Summary Project Report

EXECUTIVE SUMMARY

The proposed kales and assorted vegetables aggregation, value addition and marketing enhancement project at Goro Roba Farmer Cooperative Society Limited is located at GPS coordinates *Latitude 2.16195, Longitude 37.89594*. The proposed project aims at establishing modern processing/value addition infrastructure for vegetables. The project will stimulate production hence increased sales volumes and income to the farmers. The proposed project entails setting up a cold storage facility with the supportive infrastructure for the fresh produce (kales and assorted vegetables). The project is supported by the County Government of Marsabit and the National government through support from the World Bank. The proposed project cost is estimated to be **Kshs. 10,956,000**.

The environmental and social impact assessment (ESIA) summary project report (SPR) is based on the recommendation of the County Director of Environment, Marsabit County based on the environmental and social screening report. The ESIA (SPR) has been prepared in accordance to Environmental Management and Co-ordination (Amendment) Act (No. 5 of 2015 & 2019) and Part II of the Environmental (Impact Assessment and Audit) Regulations 2003 the NEMA public notice 31 on processing of EIA reports of 12th March 2020 and the World Bank safeguards policy OP 4.01 Environmental Assessment. The other policies relevant policies included the Food Drugs and Chemical Substance Act Cap 254, Standards Act cap 496, Cooperative Society Act, the land title act cap 282, sexual offence Act No 3 of 2006, Occupation Health and Safety Act 2007, work injury and compensation Act, public health Act cap 242. The objective of this ESIA (SPR) was to assess the environmental and social impacts of the proposed project, propose appropriate mitigation measures and make recommendations on the approval by the National Environmental Management Authority.

The approach used in this ESIA (SPR) included environmental and social screening, environmental and social scoping, desk review, field visit, public participation and stakeholder consultation and report writing. The methods used in public participation and stakeholder consultation included meeting at the site and data collection from key informant using structured questionnaires from stakeholders. The meeting was conducted on 15th May 2022 where a total of 74 people (19 males, 55 female) participated.

The major issues raised during the public participation and stakeholder consultation included risk of contamination of the produce from the increased use of agrochemicals, poor access roads, reduction in livelihood diversification as a result of increased prices for the kales and other leafy vegetables and increased post-harvest handling at farm level resulting from increased production. The responses to this concerns included training farmers on integrated pest management, liaising with local leaders for the construction/repair of access roads, sensitizing farmers on the importance of livelihood diversification and training on post-harvest handling and management.

The anticipated positive impacts of the proposed project include creation of employment opportunities, creation of demand for locally available materials, increased production of vegetables and processing of vegetables products. The major negative impacts during construction include solid waste, noise pollution and work injuries and accidents. Similarly, the negative impacts during operations and maintenance include solid waste, liquid waste from the washing of vegetables, increased demand for water, increased demand for energy for processing, risk of fire, occupational health and safety hazards and gender-based violence at community level. A comprehensive environmental and social management and monitoring plan (ESMMP) is presented in chapter six of this report to mitigate any negative impacts. The Environmental and Social Management and Monitoring Plan (ESM&MP) will be implemented at a total cost of KES 105,000 during construction phase, the cost of implementation during operation and maintenance shall be included in the society annual budget.

Based on the findings of the assessment the proposed project is not likely to result into significant negative impacts. It is therefore the view of the experts that the project be allowed to proceed and recommends approval by National Environmental Management Authority (NEMA) subject to an annual audit. The experts further recommend that the reports be shared with the selected contractors for the implementation of the contractors specific ESMMP. The County Project Coordination Unit (CPCU) through the CESSCO, Marsabit County in consultation with relevant stakeholders shall monitor the implementation of the ESMMP and report on compliance.

CHAPTER ONE INTRODUCTION

1.1 Background Information

Goro Roba Farmers Marketing Cooperative Society LTD is a group of farmers that was formed in 2019 and has a membership of 362 farmers (197 males, 160 females) drawn from Sagante/Jaldesa ward in Saku sub County of Marsabit County. Goro Roba Farmers Marketing Cooperative Society LTD is a farmers'-based organization. However, to gain legal autonomy, the cooperative has registered as a cooperative. The project was identified through consultative meeting with all members during the last Annual general meeting where members were enlightened on their marketing potential in the activities they were dealing with. The meeting tasked the management team to source for funding for implementation.

The Objective of the project is to enhance the capacity of the members to increase production for the market, establish proper handling system for the fresh produce and setting up of good marketing infrastructure for vegetables (kales and assorted vegetables). The project is expected to increased sales volumes and income for members. The project contributes to the KCSAP PDO through increased productivity and incomes by stimulating production due to availability of marketing avenue as well as increased area under production and productivity from enhanced access to the market. The project is supported by Kenya Climate Smart Agriculture Project (KCSAP) under the County Government of Marsabit through the funding of the World Bank. The cost of the project is Kshs. 10,956,000.

1.2 Project Justification

Goro Roba Farmers Marketing Cooperative Society LTD decided to carry out this project because the area they work in has farmers engaged in vegetables production. This provides good catchment for the project planned. The members have also got enough experience with the crop and the income fetched from its produce is higher. Its' management is also very simple compared to other forms of crops. It's also highly preferred by many people because of its nutritional value. Furthermore, the project will benefit 946 vegetable farmer's comprising of 450 Male and 496 females who are members of the society.

1.3 Justification of Summary Project Report

This Environmental Impact Assessment (ESIA) Summary Project Report (SPR) is based on the recommendations of the County Director of Environment (CDE), Marsabit County following the environmental and social safeguards screening report as provided for in the environmental and social management framework (ESMF). This report incorporates the **World Bank Safeguard Policy 4.01 on Environmental Assessment**. The activities of Goro Roba Farmer Cooperative Society (FCS) limited are low risk activities listed within the second schedule of section 58(1), (5) of EMCA, 1999 revised 2015 and NEMA public ESIA and Legal Notice No. 31 reports of 12th March 2020 which provides for preparation and submission of Summary Project reports for low or medium risk projects. Furthermore, no environmental and social assessment impact had been conducted for the activities of the society.

1.4 Summary Project Report (SPR)

The objectives of the Environmental and Social Assessment (SPR) included

- To describe the nature of the proposed Project site including the layout, design and planned activities
- To conduct a comprehensive public participation and document the outcome for the proposed project
- To identify and analyze the potential environmental and social impact of all the project cycle phases (planning, construction, operations and decommissioning)
- To propose mitigation measures for the identified environmental and social impacts for all the project lifecycle
- To prepare Environmental and Social Management and Monitoring Plan (ESMMP) for the entire project lifecycle based on study
- To make recommendations based on the findings of the ESIA(SPR)

1.5 Approach and Methodology of Summery Project Report

The methods used in the study entailed screening, scoping, desk review of documents pertinent to the proposed project, site visit, public participation and stakeholder's consultation, administration of questionnaire and preparation of ESIA Summary Project Report.

1.5.2 Screening

The environmental law (EMCA, 1999) provides that all projects that fall under second schedule must be subjected to an ESIA. Thus screening was done to establish whether or not an Environment and Social Impact Assessment was necessary. The project was deemed necessary to conduct an ESIA for the assessment of its likely impacts on the environment and the community socially and preparation of a Summary Project Report. The screening took place on 26th December 2019. The screening team was composed of the Environmental and Social Safe-guards Officer (CESSCO-Marsabit), County Director of Environment and the Sub County Agriculture Officer.

1.5.3 Scoping Process

This was done to identify significant issues allied with the project and the reasonable and feasible project alternatives. The process involved discussions with the proponent, face-to-face interviews with the identified stakeholders and survey of the site.

1.5.4 Desk review of Documents

The ESIA team reviewed all the relevant available documents on project activities and components from the client. The team also reviewed all the available and relevant internal environmental guidelines put in place by the proposed project and recognized guidelines and standards on ESIA (SPR).

1.5.5 Site Visit

The ESIA team conducted field visits to the Goro Roba Farmer Cooperative Society Limited to assess the site and consultations with stakeholders to obtain further information. The team

established the nature of the surroundings including: existing infrastructure, the employees and economic and social set up of the neighbors whose normal daily activities will be and/or likely to be affected by the implementation of the proposed project.

1.5.6 Public participation and Stakeholders consultation

The purpose of public participation was to ensure involvement and consultations to foster project ownership. The process helped all the key stakeholders of Goro Roba FCS to understand what the project entailed which formed a useful component for information gathering, understanding and establishing likely environmental and social impacts of the proposed upscaling and diversification of kales value chain as required by law. The beneficiary community had a chance to give their views in terms of potential benefits and adverse effects. The methods used included meeting, focused group discussion, key informant interviews and data collection using structured questionnaires. The views were then analyzed and incorporated in chapter four of this report.

1.6 Contents of the Report, Organization and Structure

This ESIA summary project report is divided into seven (7) chapters as follows: Chapter one present the introductory chapter; Chapter 2 gives nature of the project, Chapter 3 gives a description of the location of the project, chapter 4 presents the outcome of the public consultation and participation process, Chapter 5 identifies and discusses the anticipated impacts and mitigation measures of the project, Chapter 6 presents the environmental and social management and monitoring plan (ESMMP). Chapter 7 gives conclusions and recommendation followed by references and Appendices.

CHAPTER TWO

THE NATURE OF THE PROJECT

2.1 Introduction

This chapter gives details of the project, proposed works, planned activities and expected outputs for the proposed establishment of the proposed Kales and Assorted Vegetables Aggregation, Value Addition and Marketing Enhancement Project at Goro Roba Farmer Cooperative Society Limited.

2.2 Project Design

The proposed project will comprise

- Installation of drip system for 1 acre of land;
- installation of (10,000 litres) plastic water tank;
- Erecting a perimeter fence (120m) with reinforced columns and steel gate;
- Installation of prefabricated (40 feet) shipping container's to serves as machine room store and office, partitioning and finishing of building to act as material/package store and;
- Procurement and installation of vegetable value addition/processing equipment.

2.3 Project Activities

2.3.1 Planning Phase

- (a) **Stakeholder consultation:** This included meeting of the beneficiaries and relevant stakeholders during project identification, design and ESIA process.
- (b) **Site handing over meeting:** This entails a meeting to hand over the site to the selected contractor to clear the site and install the containers as well as the other equipment.

2.3.2 Construction Phase

This will entail the following activities: -

- (a) **Procurement of items:** This will entail purchase of a container, value addition/processing equipment, and water tank of capacity 10,000 litres.
- (b) **Setting out of the site:** This entails the actual laying of the site for the various structures including the container, sanitation facilities, water tank and the fence
- (c) **Installation of the container.** This involves constitution of the foundation base and installing the container.
- (d) **Partitioning Works:** This entails partitioning the containers for the store, value addition area and offices
- (e) **Setting up of machines/ equipment:** This entails setting the value addition equipment in place
- (f) **Construction of soak pit/Septic tank:** This entails excavation and construction of soak pit/septic tank to manage both liquid and solid waste
- (g) **Construction of Pit latrine:** This entails construction of VIP pit latrine to manage human waste
- (h) **Fencing:** This entails fencing the site using concrete posts, barbed wire and chain link.

2.3.3 Operations and Maintenance Phase

The project activities will include the following: -

- a) **Processing and packaging of vegetable:** This will entail washing of fresh vegetables, blanching, drying of the vegetables and packaging.
- b) **Maintenance of equipment:** This will entail routine maintenance procedure of the equipment to ensure sustainability.
- c) **Marketing of processed vegetables:** This will entail a structured marketing plan for the processed vegetables to the various marketing outlets

2.4 Materials and Equipment

2.4.1 Materials

The main materials include container of 80 feet, cement, concrete, concrete posts, barbed wire and chain link

2.4.2 Equipment

The main equipment includes vegetable value addition equipments.

2.5 Project Cost

The total project cost of implementing the ESMP is Kshs. 10,956,000 excluding the cost of implementing the ESMP

CHAPTER THREE THE PROJECT LOCATION

3.1 Introduction

This chapter describes the proposed project location/siting, proof of land ownership of the proposed project site, environmental sensitive area to be affected during implementation period, supportive environmental management infrastructure and conformity to land use plan or zonation.

3.2 Location of Project

The proposed Kales and assorted vegetables aggregation, value addition and marketing enhancement project is located at Dirib Village, Dirib sub location, Dirib Gombo location, Sagante/ Jaldesa ward, Saku Sub County, Marsabit County. The proposed project site lies within GPS Coordinates *Latitude 2.16195, Longitude 37.89594*.



3.3 Proof of Land Ownership

The proposed project will be located on the parcel of land measuring 0.5 hectares belonging to Goro Roba Cooperative society limited, the land is bought from Bonaya Wario Bashuna of National Identification Number 0067084 situated in Sagante Adjudication Section in Gadamoji Division (*A copy of land sale agreement is annexed (Annex 5)*). The land department confirmed upon search done on the ownership and area chief confirmed the same.

3.4 Any Environmental Sensitive area to be affected

The assessment established that no environmental sensitive area will be affected during the implementation of the proposed project.

3.5 Supportive Environmental Management Infrastructure

The existing supportive infrastructure include

3.5.1 Energy Supply

The main sources of energy within the project area are firewood, paraffin and charcoal. There is an increase in usage of solar energy especially by health and education institutions that do not have access to electricity lines. There is also electricity supplied by Kenya Power.

3.5.2 Health Facilities

The area is served by a health facilities located within the project area the nearest (Boru Haro dispensary) located approximately 8 Kilometres from Goro Roba Cooperatives land and therefore minor health conditions and injuries during the project implementation would be adequately handled by the facility.

3.4.3 Education

The project area has primary, like Qachacha primary school, and Sasura Gilrs and Gadamoji secondary school such as polytechnics. 40 % of the population is literate with only 28 % unable to read. Another 26 % of the population is not able to write.

3.5.3 Trade and Industry

There main towns within near the project area Saku in Marsabit central market where most of the residents buy their goods and obtain the necessary services. There are several market centres within the project catchment area, which include Laisamis, North-Horr, and Moyale. This provides a ready market for the produce once the project is completed.

3.5.5 Security

There exist Marsabit police station, which is located in town to provide the required security services to the residence within the project catchment area.

3.6 Conformity to Land Use Plan and Zonation Plan

The proposed project involves assorted vegetables aggregation, value addition and marketing for aggregation, cleaning, polishing and packaging of kales value chain, and study establishes that the community have been growing and storing kales and other crops in the area and therefore the proposed project conforms to the land use plan/zonation of the area.

CHAPTER FOUR

PUBLIC PARTICIPATION AND STAKEHOLDERS CONSULTATIONS

4.1 Introduction

The Kenyan government has enshrined the need for human societies' involvement in project development in the constitution. Public consultation with regard to the proposed development was conducted as required in the Environmental and social Impact Assessment and Audit Regulations of 2003 (Amendment, 2019). The law requires that community participation be part of ESIA and their issues of concern be addressed. It has also been demonstrated that projects that go through this process will acquire high level of public acceptance and accrue benefits for a wider section of the society.

4.2 Objectives of Public Participation and Stakeholders Consultation

The consultations aimed at informing the public about the potential impacts of the project and the mitigation measures proposed by the proponent under the advice of the ESIA experts. The consultations also acted as a forum where the public could express their concerns, expectations and communicate with the project team. Special attention was given to potentially vulnerable and marginalized groups such as women, youths and the differently abled persons.

The specific Objectives included

- Inform all stakeholders and the community of the proposed banana project
- Explain to the stakeholders the nature of the proposed project, its objectives, scope, funding and any other information with regard to the proposed project
- Seek the views of the people on the proposed project
- To seek their opinions on any positive or negative impacts from the establishment of the proposed upscaling and diversification of processed kales products at Goro Roba FCS limited
- To find out if there are any environmental and social issues that the establishment of the proposed project.
- Obtain suggestion from community members on possible ways that they feel potential negative environmental and social impacts can be effectively mitigated

4.3 Categorization of Community Participants and stakeholders

The main participants included representatives from area served by the society. The other participants and stakeholders included Crop officers, Cooperative officers, social officers, banks, local leaders and employees of the society. Detailed list of participants and stakeholder identified in Annex 9.

4.4 Methodology of Public Participation and Stakeholder Consultation

Public participation process involved a meeting with members of the cooperative and stakeholders on 15th May 2022 where 74 people comprising of 19 males and 55 females participated (Annex 4). Key informant interviews were also conducted using structured questionnaires (see duly filled sample in annex 5 and 6 to gain an in-depth understanding about the project.



Figure 2: Photos during public meeting and stakeholder consultation

4.5 Summary of Issues Raised by Community and Stakeholders and Responses

The concerns raised during the meeting with management, employees and transporters included;

No.	Issues	Responses
1.	Risk of contamination from increased use of agro-chemicals	<ul style="list-style-type: none"> ○ Training farmers on Integrated Pest Management to reduce use of agro-chemicals. ○ Training of farmers on safe use of chemicals
2.	Poor status of the access road	<ul style="list-style-type: none"> ○ Farmers to use flexible means of transport like motorcycles ○ Liaise with local leadership including area MCA and MP to prioritize the construction/repair of the road
3.	Decreased livelihood diversification because of focus on the vegetables given the better prices as a result of the value addition	<ul style="list-style-type: none"> ○ Continuous sensitization of farmers on the importance of livelihood diversification
4.	Increased post-harvest losses at the farm gate before produce is transported to the value addition center	<ul style="list-style-type: none"> ○ Training farmers on post-harvest handling of vegetables

CHAPTER FIVE

ANTICIPATED IMPACTS AND MITIGATION MEASURES

5.1 Introduction

This chapter presents the assessment of issues likely to arise because of the implementation of proposed kales and Assorted Vegetable Aggregation, Value Addition and Marketing Enhancement Project at Goro Roba FCS. The anticipated impacts are discussed as environmental impacts and social impacts in three phases namely construction, operational and decommissioning phases. During the implementation of the proposed construction and operation, it is likely that the project will result in both positive and negative impacts to the environment. All possible practical measures should be put in place to ensure that any likely negative impacts are mitigated and positive impacts are enhanced and maximized.

5.2 Environmental and Social Impacts during Construction Phase

5.2.1 Positive Impacts

A number of positive impacts have been accrued from the success of Goro Roba. The most obvious and evident are outlined below.

- a) **Creation of Employment Opportunities:** Both skilled and unskilled manpower shall be employed at during the site preparation, installation of processing equipment, pit latrine as well as during fencing of the site

5.2.2 Negative Environmental and Social Impacts during Construction

a) Dust Emissions

Dust is likely to be generated during the site preparation works, installation of processing equipment, digging of pit latrine. The potential negative impacts to the employees include eye irritation if it gets in contact with the eye, skin irritation if it gets into contact with the skin, impairment of normal sweating of the skin as it blocks pores on the skin; choking of the throat; potential course of chest complication and ailment.

Mitigation measures

- The contractor to carry out regular sprinkling of water to be done on dusty surface
- The contractor should provide dust masks to all employees involved in the renovation and construction work

b) Noise pollution and vibrations

The proposed project will most likely result in noise emission as a result of machines like cement mixers, riveting machine while installing equipment and trucks delivering materials. This impact is however minimal

Mitigation measures

- The contractor to ensure that all construction work to be limited to daytime only
- The contractor should notify the immediate neighbors in advance on the date of commencement of construction/renovation work.
- The contractor should provide all employees likely to be exposed to ear noise with ear protectors

c) **Generation of solid waste**

Solid waste generated site preparation, installation of processing equipment includes concrete chippings, excavated soil from digging of pit latrine, digging holes for fencing, paper wrappings for the procured equipment and cement bags. This impact shall be minimal in nature since there is no major construction works.

Mitigation measures

- Provide waste collection facilities (waste bins) for the temporary storage of wastes prior to disposal at an appropriate and designated sites.
- The contractor to liaise with the County government and the local NEMA office for direction on licensed waste collectors and suitable dumping sites for generated wastes.
- The contractor will also sensitize construction workers on proper management of wastes.

d) **Risk of accidents and worker's injuries**

During installation/setting up of equipment activities construction workers may encounter accidents and injuries from unloading of equipment for trucks, hand tools and cuts from sharp objects, slips and fall from heights, tripping hazards among others.

Mitigation Measures

- The contractor should ensure that workers are provided with personal protective equipment and first aid kit
- The contractor should ensure that all equipment are inspected before use for appropriate safeguards and that the machine operators are trained on machine safety
- Ensure appropriate safety signs at within the working areas to guide the workers on site.

5.3 Environmental and Social Impacts during Operation and Maintenance

5.3.1 Positive Impacts

- a) **Creation of Employment Opportunities:** Throughout the project cycle, there has been both skilled and unskilled manpower employed at the facility more so to the locals
- b) **Vegetable Processing and Storage:** The project will help reduce cases of post-harvest losses given the perishable nature.
- c) **Increased farmer's income:** Farmers will receive high income per unit of produce from the sales of vegetables because of the value addition.

5.3.2 Negative Environmental and Social Impacts during Operation

a) Generation of Solid Waste

The operations of project and related activities and processes will result in moderate quantities of solid waste. The waste will include materials such as waste papers from offices, waste cartons, and vegetable packaging materials.

Mitigation Measures

- Ensure reduction at source, recycling, re-use of generated solid wastes as much as possible

- Employees should dump solid wastes in designated covered dustbins
- Waste are segregated depending on the nature and the characteristics of the wastes e.g. metals, plastics, papers

b) Generation of liquid Waste

This is likely to result from effluent from cleaning the working area and equipment, waste vegetable and oil spills from motor cycles and motor vehicles.

Mitigation Measures

- All liquid waste shall be channeled to a soak pit
- Due care shall be taken by operators to minimize oil spill from motor vehicles and when it occurs the affected soil shall be scooped and disposed in designated sites
- The project management should ensure recycling and reuse whenever possible
- The drainage should be covered and the mesh paced at the hole discharging the liquid waste out of the room
- The drainage from the value addition and cooling sections should be connected to the soak pit and checked regularly for leakages

c) Storm water management

- Water harvesting to reduce the volume of storm water
- The drainage channels should be kept clean free from solid waste

d) Increased demand for energy for processing

The proposed project will result in increased demand for electricity for internal climate adjustment (value addition/processing and lighting) and for the operation of vegetable value addition/processing equipment

Mitigation measures

- Energy saving bulbs to be used in lighting in offices. Also switching off the light during the day and utilizing natural light can help and use of energy saving bulbs (LED lighting).
- Proper ventilation of the premise to ensure optimum natural light during the day.
- Provide automatically fused control boxes for each item of equipment in the power distribution panel to prevent interruption in case of tripping.
- Select vegetable processing equipment with energy-saving features wherever possible
- The management should consider installation of solar power for heating and lighting

e) Increased demand for water

The proposed project will result in increased demand for water. Water will be required from processing and cleaning of equipment and the working area.

Mitigation measures

- Installing water saving devices such as push taps to be installed to minimize lose.
- Installation of water tanks for roof rainwater harvesting systems to the premise.
- All workers should be sensitized on appropriate water use and conservation technologies applicable.

f) Occupational Health Hazards

During operation occupation, health hazards may include electric shocks and injuries from equipment / machine handling.

Mitigation Measures

- Ensure workers are provided with personal protective equipment and first aid kit
- Workers should be sensitized on first aid
- Ensure all equipment are inspected before use for appropriate safeguards and that the machine operators are trained on machine safety
- Ensure the working hours are controlled and that employees are not allowed to extend the working hours beyond an acceptable limit for purposes of gaining extra pay
- Ensure appropriate floor surface in the working areas of the premise
- The premise should be registered with the Director of Occupation Health and Safety
- The management should ensure that all machines are labelled and have operation manuals
- There should be register for recording all ailments sickness and accident occurrences
- Employee should be provided with emergency contacts for rescue teams such as hospital, Red Cross and firefighters.

g) Risk of fire within the facility

There is risk of fire from electric malfunction within the premise during processing. Appropriate measures must therefore be put in place to prevent this from happening.

Mitigation Measures

- Ensure that all electric conductors are properly insulated
- Installing cut out fuses to automatically cut off power in case of a malfunction
- Installing firefighting equipment at all the fire prone locations within the premise
- Designating a fire assembly point within the premise

h) Gender Based Violence at Community level

There is likely to be increased cases of GBV arising from sharing of the proceeds from the increased returns from vegetable sales at household level

Mitigation Measures

- Sensitizing the community against GBV
- Have deterrent/punitive measures for any offenders reported.

i) Social Conflicts

During the implementation, conflicts may arise in the management of the project especially the benefits accruing from the project, payment of employees, payment of farmers delivering vegetables and the day-to-day operations.

Mitigation Measure

- Regular trainings on leadership and governance for the management team
- Having in place a sound management team to oversee the implementation of the project
- Having a clear record of vegetables deliveries by farmers and signing an agreement on how payments shall be done

- Instituting a grievance redress mechanism at community level comprising of members of project management team, local administration and Church leaders

5.4 Environmental and Social Impacts during decommissioning Phase

Decommissioning refers to the final disposal of the project and associated materials at the expiry of the project life span or when the center is closed down, or when the society gets another alternative business or relocates to a new site. During this phase, the proponent will be expected to demolish the physical structures, change use, and remove the infrastructure and remediate the site.

5.4.1 Negative Environmental and Social Impacts during decommissioning

a) Generation of solid wastes

Although demolition waste is generally considered as less harmful to the environment since they are composed of inert materials, there is growing evidence that large quantities of such waste may lead to release of certain hazardous chemicals into the environment. We recommend that proper waste disposal mechanisms be observed during the decommissioning phase.

Mitigation Measures

- Waste should be disposed at designated sites approved by the County Government of Marsabit and NEMA

b) Noise Pollution

The decommissioning related activities such as demolition works will lead to significant deterioration of the acoustic environment within the project site and the surrounding areas. This will be as a result of the noise and vibration that will be experienced as a result of demolishing the proposed project structures.

Mitigation Measures

- Any noisy source including equipment, machinery or device shall be mitigated by use of appropriate noise suppression equipment such as mufflers
- The workers will be supplied with an ear mask where applicable to control excessive noise
- No works during the night to prevent disruption of the neighbouring community

c) Occupational Health Hazards

Demolition works will inevitably expose workers and the public to occupational health and public safety risks: in particular, working with heavy equipment, handling and use of tools engender certain risks. The construction workers are also likely to be exposed to risk of accidents and injuries resulting from accidental falls, falling objects, injuries from hand tools and other equipment.

Mitigation Measures

- Ensure workers are provided with personal protective equipment and first aid kit
- Ensure appropriate road safety signs are strategically placed and drivers adhere to the requirements of such signage
- All construction sites shall be isolated from the public, customers and internal workers. through temporary scaffolding and fixing appropriate safety signage and information

CHAPTER SIX

ENVIRONMENTAL AND SOCIAL MANAGEMENT AND MONITORING PLAN

6.1 Introduction

The proponent acknowledges the fact that the proposed project activities will have some level of impacts on the environment and socio economic well-being of the local residents. 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 impacts associated with the life cycle of the project. The ESMP has been developed to provide a basis for an Environmental Management System (EMS; ISO 14001 principles) for 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 will be subject to a regular regime of periodic review.

The ESMP provides a general outlay of the activities, associated impacts, mitigation action plans and appropriate monitoring action. It also defines implementation timeframes and responsibilities

The ESMP Involves construction, operational and decommissioning phases of the proposed hatchery project respectively. The ESMP will be used as checklist in future environmental audits.

The environmental and social monitoring will involve a continuous surveillance of performance of specific functions during the construction, operation and decommissioning phases of the project.

6.2 Environmental and Social Management and Monitoring Plan (ESMP)

6.2.1 Environmental and Social Management and Monitoring Plan during Construction

No.	Environmental and Social Impact	Proposed Mitigation Measures	Monitoring Indicators	Responsibility	Means of Verification	Time Frame	Est. Cost (KShs.)
1.	Dust Emissions	<ul style="list-style-type: none"> ○ The contractor to carry out regular sprinkling of water to be done on dusty surface ○ The contractor should provide dust masks to all employees involved in the renovation and construction work 	<ul style="list-style-type: none"> No of times in a day watering is done No of employees on site with dust masks 	Contractor Management	Daily Report	1Month	20,000
2.	Noise pollution and Vibrations	<ul style="list-style-type: none"> ○ The contractor to ensure that all construction work to be limited to daytime only ○ The contractor should notify the immediate neighbors in advance on the date of commencement of construction/renovation work. ○ The contractor should provide all employees likely to be exposed to ear noise with ear protectors 	<ul style="list-style-type: none"> ○ No of hours worked in a day ○ No of neighbours notified ○ No of workers with ear noise protectors 	Contractor Management	Site Report	1 Month	15,000
3.	Generation of Solid waste	<ul style="list-style-type: none"> ○ Provide waste collection facilities (waste bins) for the temporary storage of wastes prior to disposal at an appropriate and designated sites. ○ The contractor to liaise with the County government and the local NEMA office for direction on licensed waste collectors and suitable dumping sites for generated wastes. ○ The contractor will also sensitize construction workers on proper management of wastes 	<ul style="list-style-type: none"> ○ No of waste bins on site ○ No of workers sensitized on solid waste management ○ No of site County Government disposal sites 	Contractor Management	Waste Disposal Plan Daily Monitor	1 Month	40,000
4.	Risk of accidents and workers injuries	<ul style="list-style-type: none"> ○ The contractor should ensure that workers are provided with personal protective equipment and first aid kit ○ The contractor should ensure that all equipment is inspected before use for appropriate safeguards and 	<ul style="list-style-type: none"> ○ No of workers having appropriate PPEs ○ No of inspections on machines ○ No of appropriate safety signs in place 	Contractor Management	Inspection Report Incidence register/report	1 Month	30,000

		<p>that the machine operators are trained on machine safety</p> <ul style="list-style-type: none"> ○ Ensure appropriate safety signs at within the working areas to guide the workers on site. 	<ul style="list-style-type: none"> ○ No of incidences reported 				
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6.2.2 Environmental and Social Management Plan during Operation phase

No.	Environmental and Social Impact	Proposed Mitigation Measures	Monitoring Indicators	Responsibility	Means of Verification	Time Frame	Est. Cost (KShs.)
1.	Generation of solid waste	<ul style="list-style-type: none"> ○ Ensure reduction at source, recycling, re-use of generated solid wastes as much as possible ○ Employees should dump solid wastes in designated covered dustbins 	<p>Level of reduction at source, recycling and reuse</p> <p>No of designated sites for waste disposal</p>	Management	Daily monitor	O&M	n/a
2.	Generation of Liquid waste	<ul style="list-style-type: none"> ○ All liquid waste shall be channeled to a soak pit ○ Due care shall be taken by operators to minimize oil spill from motor vehicles and when it occurs the affected soil shall be scooped and disposed in designated sites ○ The project management should ensure recycling and reuse whenever possible ○ The drainage should be covered and the mesh paced at the hole discharging the liquid waste out of the room ○ The drainage from the value addition and cooling sections should be connected to the soak pit and checked regularly for leakages 	<p>Volumes of liquid waste generated</p> <p>Extent of connection of value addition section to soak pit</p>	Management	<p>Waste Management Plan</p> <p>Daily monitor</p>	O&M	To be provided for in annual budget
3.	Storm water management	<ul style="list-style-type: none"> ○ Water harvesting to reduce the volume of storm water ○ The drainage channels should be kept clean free from solid waste 	<p>No of water harvesting structures in place</p> <p>No of times drainage channels are maintained to ensure there are no blockages</p>	Management	Daily Monitor	O&M	n/a
4.	Increased demand for energy for processing	<ul style="list-style-type: none"> ○ Energy saving bulbs to be used in lighting in offices. Also switching off the light during the day and utilizing natural light can help and use of energy saving bulbs (LED lighting). 	<p>No of energy saving bulbs</p> <p>No of automatically fused control boxes</p>	Management	<p>Energy Use Report</p> <p>Monthly Bills</p>	O&M	To be provided for in annual budgets

ESIA (SPR) For The Proposed Kales and Assorted Vegetables Aggregation, Value Addition and Marketing Enhancement Project at Goro Roba Farmers Marketing Cooperative Society Ltd

		<ul style="list-style-type: none"> ○ Proper ventilation of the premise to ensure optimum natural light during the day. ○ Provide automatically fused control boxes for each item of equipment in the power distribution panel to prevent interruption in case of tripping. ○ Select vegetables processing equipment with energy-saving features wherever possible ○ The management should consider installation of solar power for heating and lighting 	<p>No of vegetables processing equipment with energy saving feature</p> <p>No of solar power installed</p>				
5.	Increased demand for water	<ul style="list-style-type: none"> ○ Installing water saving devices such as push taps to be installed to minimize lose. ○ Installation more tanks for roof rainwater harvesting systems to the premise. ○ All workers should be sensitized on appropriate water use and conservation technologies applicable. 	<p>No of water saving devices installed</p> <p>No/capacity of tanks installed to harvest water</p> <p>No of workers sensitized on water use and conservation</p>	Management	Water Use Report Daily Monitor	O&M	To be provided for in annual budget
6.	Occupation health safety	<ul style="list-style-type: none"> ○ Ensure workers are provided with personal protective equipment and first aid kit ○ Ensure all equipment are inspected before use for appropriate safeguards and that the machine operators are trained on machine safety ○ Ensure appropriate floor surface in the working areas of the premise 	<p>No of workers provided with PPEs</p> <p>No of time equipment are inspected</p> <p>Type of material used on the floor</p>	Management	Daily monitor Report	O&M	
7.	Risk of fire in the facility	<ul style="list-style-type: none"> ○ Ensure that all electric conductors are properly insulated ○ Installing cut out fuses to automatically cut off power in case of a malfunction ○ Installing firefighting equipment at all the fire prone locations within the premise ○ Designating a fire assembly point within the premise 	<p>No of automatic cut out fuses</p> <p>No of firefighting equipment at all fire prone locations</p> <p>No of fire assembly points</p>	Management	Fire Risk assessment/inspection report	O&M	n/a
8.	Gender Based Violence at community level	<ul style="list-style-type: none"> ○ Sensitizing the community against GBV ○ Have deterrent/punitive measures for any offenders reported. 	<p>No. of community members sensitized on GBV</p> <p>No of incidences reported</p>	Management	Incidence Report Sensitization Report	Periodic	20,000
9.	Social conflict	<ul style="list-style-type: none"> ○ Regular trainings on leadership and governance for the management team 	<p>No of leaders trained on leadership</p> <p>Frequency of training</p>	Management	Attendance list Training Program	O&M	n/a

	<ul style="list-style-type: none"> ○ Having in place a sound management team to oversee the implementation of the project ○ Having a clear record of vegetable deliveries by farmers and signing an agreement on how payments shall be done ○ Instituting a grievance redress mechanism at community level comprising of members of project management team, local administration and Church leaders 	<p>No of farmers who have signed agreement for vegetables deliveries</p> <p>No of conflict incidences reported</p>		Incidence register		
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6.2.3 Environmental and Social Management Plan during Decommissioning Phase

No.	Environmental and Social Impact	Proposed Mitigation Measures	Monitoring Indicators	Responsibility	Means of Verification	Time Frame	Est. Cost (KShs.)
1.	Generation of waste	<ul style="list-style-type: none"> ○ Waste should be disposed at designated sites approved by the County Government of Marsabit and NEMA 	No of waste designated sites	New management Contractor	Site Report	Decommissioning	n/a
2.	Noise Pollution	<ul style="list-style-type: none"> ○ Any noisy source including equipment, machinery or device shall be mitigated by use of appropriate noise suppression equipment such as mufflers ○ The workers will be supplied with on ear mask where applicable to control excessive noise ○ No works during the night to prevent disruption of the neighbouring community 	<p>No of machine fitted with appropriate noise suppression equipment</p> <p>No of workers with ear masks</p>	New management Contractor	Site Report	Decommissioning	n/a
3.	Occupation Health Hazard	<ul style="list-style-type: none"> ○ Ensure workers are provided with personal protective equipment and first aid kit ○ Ensure appropriate road safety signs are strategically placed and drivers adhere to the requirements of such signage ○ All construction sites shall be isolated from the public, customers and internal workers. through temporary scaffolding and fixing appropriate safety signage and information 	<p>No of workers with appropriate PPEs</p> <p>No of appropriate safety signs in place</p>	New management Contractor	Site Report	Decommissioning	n/a

CHAPTER SEVEN

CONCLUSION AND RECOMMENDATION

7.1 Conclusion

The proposed Kales and Assorted Vegetables Aggregation, Value Addition and Marketing Enhancement Project by Goro Roba Cooperative Society has significant positive impacts compared to the anticipated negative impacts that has adequately been mitigated as outlined in the ESMMP. The proponent should endeavor to enhance the positive while implementing the proposed mitigation measure to minimize/reduce the negative impacts arising from the project activities in all the phases of implementation. Similarly, the project design has taken into consideration measures to reduce/ minimize some of the identified negative impacts while ensuring compliance to all the applicable laws, regulations and standards.

Therefore, based on the findings the project activities will not result into significant negative impacts that can compromise the environmental and social wellbeing as well as the health and safety of the employees and vegetable farmers.

7.2 Recommendations

It is my recommendation that proposed project proceed provided the proposed mitigation measures as outlined in the ESMMP are implemented subject to NEMA approval. On approval the proponent should-

- Implement the proposed project based on the proposed plans and if alterations are necessary, advice should be sought the NEMA
- Share the ESMMP with the contractor who should prepare and implement the Contractors ESMMP
- Complies with all the regulations of National Construction Authority (NCA) during all the phases of the project
- The proponent undertakes annual environmental audit pursuant to the provisions of EMCA.

REFERENCES

1. Kenya gazette supplement Acts 2000, Environmental Management and Coordination Act Number 8 of 1999. Government printer, Nairobi
2. Kenya gazette supplement number 56. Environmental Impact Assessment and Audit (Amendment) Regulations 2019, Government Printers, Nairobi.
3. The Occupational Safety and Health Act, 2007, Government Printer, Nairobi
4. World Bank (1991), Environmental Assessment sourcebook volume I: Policies, procedures and cross-sectoral issues. World Bank, Washington.
5. Kenya gazette supplement number 68, Environmental Management and Coordination (Water Quality) Regulations, 2006, Government printer, Nairobi
6. Kenya gazette supplement number 69, Environmental Management and Coordination (Waste management) Regulations, 2006, Government printer, Nairobi
7. Noise Prevention and Control Rules 2005, Legal Notice no. 24, Government Printers, Nairobi
8. The Cooperative Societies Act Chapter 490, Revised Edition 2012 [2005], Published by the National Council for Law Reporting with the Authority of the Attorney-General www.kenyalaw.org
9. Food, Drugs and Chemical Substances Act Chapter 254, Revised Edition 2012 [1992], Published by the National Council for Law Reporting with the Authority of the Attorney-General www.kenyalaw.org
10. The Energy Act No 1 of 2019

ANNEXES

Annex 1: Duly Filled ESS Checklist



KENYA CLIMATE SMART AGRICULTURE

Annex 12A: Environmental and Social Screening Check list
ESM Sub micro-Projects Screening Checklist (Prototype)
(Sub-projects screening process by benefitting communities/Agencies)
Section A: Background information

Name of County: MARSABIT COUNTY
 Name of CPCU /Researcher: ENTO JUMA
 Sub/micro-project location: QACHAKHA, SAGAOTE/JALDESA WARD
 Name of CBO/Institution: GORO-ROBA COOPERATIVE SOCIETY LIMITED
 Postal Address: P.O. BOX 10-60500, MARSABIT
 Contact Person: SOMO WARIO Cell: _____
 phone: 0712 870191
 Sub/ micro-project name: N/A
 Estimated cost (Kshs.): 10,956,000 K
 Approximate size of land area available for the sub-project: 0.5 Hectares
 Objectives of the sub project: Enhance capacity of members, to increase kales production for marketing.
 Activities/enterprises undertaken: Setting up proper infrastructure to expand production area
 How was the sub-project chosen? Consultative meeting, capacity need assessment.
 Expected sub project duration: 2 years

Section B: Environmental Issues

Will the sub/ micro-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 soil degradation?		✓
Affect soil salinity and alkalinity?		✓
Divert the water resource from its natural course/location?		✓
Cause pollution of aquatic ecosystems by sedimentation and agro-chemicals, oil spillage, effluents, etc.?		✓
Introduce exotic plants or animals?		✓
Involve drainage of wetlands or other permanently flooded areas?		✓

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Cause poor water drainage and increase the risk of water-related diseases such as malaria?		✓
Reduce the quantity of water for the downstream users?		✓
Result in the lowering of groundwater level or depletion of groundwater?		✓
Create waste that could adversely affect local soils, vegetation, rivers and streams or groundwater?		✓
Reduce various types of livestock production?		✓
Affect any watershed?		✓
Focus on Biomass/Bio-fuel energy generation?		✓

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

Section C: Socio-economic Issues

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

Section D: Natural Habitats

Will the sub /micro-project:	YES	NO
Be located within or near environmentally sensitive areas (e.g. intact natural forests, mangroves, wetlands) or threatened species?		✓
Adversely affect environmentally sensitive areas or critical habitats – wetlands, woodlots, natural forests, rivers, etc.)?		✓
Affect the indigenous biodiversity (Flora and fauna)?		✓
Cause any loss or degradation of any natural habitats, either directly (through project works) or indirectly?		✓
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?		✓
Agrochemical use		
Will the sub/ micro-project:		
Involve the use of pesticides or other agricultural chemicals, or increase existing use?		✓
Cause contamination of watercourses by chemicals and pesticides?		✓
Cause contamination of soil by agrochemicals and pesticides?		✓

6. Training

a) Have you ever received any training on any of the following topics related to crop production?

Integrated Pest Management Yes... No.....

No. of times/past year.

b). Pesticide Usage Yes..... No.....

No. of times/past year.

c). Pesticide Safety: Yes..... No.....

No. of times/past year.

d). Insect Identification Yes..... No...

No. of times/past year.

e). Disease Identification Yes..... No...

No. of times/past year.

f). Quality aspects of production Yes... No.....

No. of times/past year.....

7) Is there anything else that you want us to know about your crop production?

Training activities for increased production.

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?		<input checked="" type="checkbox"/>
Members of these VMGs in the area who could benefit from the project?		<input checked="" type="checkbox"/>
VMGs livelihoods to be affected by the sub project?		<input checked="" type="checkbox"/>

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?		<input checked="" type="checkbox"/>
Use land that is currently occupied or regularly used for productive purposes (e.g. gardening, farming, pasture, fishing locations, forests)		<input checked="" type="checkbox"/>
Displace individuals, families or businesses?		<input checked="" type="checkbox"/>
Result in temporary or permanent loss of crops, fruit trees and pasture land?		<input checked="" type="checkbox"/>
Adversely affect small communal cultural property such as funeral and burial sites, or sacred groves?		<input checked="" type="checkbox"/>
Result in involuntary restriction of access by people to legally designated parks and protected areas?		<input checked="" type="checkbox"/>
Be on monoculture cropping?		<input checked="" type="checkbox"/>

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
<input type="checkbox"/> All the above answers are 'No'	<ul style="list-style-type: none"> If all the above answers are 'No', there is no need for further action; If there is at least one 'Yes', please describe your recommended course of action (see below)
<input type="checkbox"/> There is at least one 'Yes'	

(iii) Recommended Course of Action

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If there is at least one 'Yes', which course of action do you recommend?

- CPCUs and County Director of Environment (CDE) will provide detailed guidance on mitigation measures as outlined in the ESMF; and
- Specific advice is required from CDE and CPCUs regarding sub-project specific EIA(s) and also in the following area(s)
- All sub-project applications/proposals MUST include a completed ESMF checklist. The KCSAP-CPCU and CDE will review the sub-project applications/proposals and the CDEs will sign off;
- The proposals will then be submitted to NPCU for clearance for implementation by communities in the proposed subprojects.

Expert Advice

- The National Government through the Department of Monuments and Sites of the National Museums of Kenya can assist in identifying and, mapping of monuments and archaeological sites; and
- Sub-project specific ESIA's, if recommended, must be carried out by experts registered with NEMA 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 policy 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 proponent shall avail the draft ESIA report at a public place accessible to project-affected groups and local NGOs/CSOs.

Completed by: SOMO WARIU
Name: GORO-ROBA COOPERATIVE SOCIETY
Position / Community: SECRETARY

Date: _____
Field Appraisal Officer (CDE): EDWARD WAWIRE
Signature: [Signature] Date: 26/12/2019

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Annex 2: Land Documentation

LAND SALE AGREEMENT

1. Bonaya Wara Bashuna of ID/ NO 0067084 being referred as the owner of plot No. situated in Sagante Adjudication Section in Gadamoji Division has today the day 20..... willingly agreed to transfer whole/or part of his parcel No measuring 62mts ft by 57mts ft to GORO ROBA SAVINGS AND CREDIT CO-OPERATIVE SOCIETY LTD (Buyer) of ID No. under the following terms and condition.

That the seller sells 62mts by 57mts to GORO ROBA at consideration price of (Ksh) 150,000 amount in words ONE HUNDRED FIFTY THOUSAND ONLY of which the vendor 57mts acknowledge the receipt.

That upon receipt vendor surrenders all interest in the said portion of land to ^{62m}

Signed [Signature] (Seller) ID No. 0067084 Date 2/10/20

Signed [Signature] (Buyer) ID No. 0211858 Date 2/10/20

WITNESS (BUYER)

1. Name DIDA BEDI Sign [Signature] ID/No 0637984 Date 2/10/20

2. Name BURUHON Sign [Signature] ID/No 2757654 Date 2/10/20

3. Name Roba [Signature] Sign [Signature] ID/No 9560002 Date 2/10/20

WITNESS (SELLER)

1. Name Jesu Mamo Sign [Signature] ID/No 8205467 Date 2/10/20

2. Name Rob Gionna Sign [Signature] ID/No 9560002 Date 2/10/20

3. Name Bora MERA Sign [Signature] ID/No 1242924 Date 2/10/20

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P.O. BOX 20000 MARSABIT

Annex 3: Minutes of Public Participation

MINUTES OF GORO-ROBA SAVINGS & CREDIT CO-OPERATIVE SOCIETY LIMITED - MEETING HELD ON 15th MAY-2022 AT Chairlady's Residence 9.00am.

Members Present:

1	Bokayo Mach Roba-chair	25	Rob Godana
2	Elena Golompo -vice chair	26	Jullo wako Golicha
3	Atsili Godiro Kosi-secretary	27	Bokayo Guyo
4	Hagudo Halima Jabara-treasurer	28	Darmi Sora
5	Somo Wario	29	Oabale Ali
6	Bokayo Galgallo	30	Oabale Godana
7	Nako Guyo	31	Buke Suke
8	Fatuma Denge	32	Somo Ali
9	Fatuma Boru	33	Daki Halaka
10	Bokayo Abduba	34	Godana Boru
11	Jullo Boru	35	Amuna Boru
12	Buke Dadacha	36	Buke Wario
13	Duramu Bagaja	37	Sadia Malicha
14	Bokayo Duba	38	Ruwa Nura
15	Safia wako	39	Oabale Adi
16	Nako Borbore	40	Yubo Denge
17	Daki Roba	41	Kabale wako
18	Galgallo mega	42	Sadia Halakhe
19	Boru namo	43	Kabale malicha
20	Taliso Golicha	44	Nako Boru
21	Oabale Dub Samale	45	Halima Duba
22	Daki wako	46	Lokko Huga
23	Fatima namo	47	Elena Guyo
24	Daki Abgudo	48	Oaliti namo
		49	Oeye Galgallo
55	Tullu Gollo	50	Elena Amna
56	Dasaye Ali	51	Ruse wako
57	Oabale Abduba	52	Duramu Jabara
58	Oabale Guyo	53	Godano wako
59	Abdub Huga	54	Boru Samalika

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Preliminaries

- The SACCO chair called the meeting to order at 9.15 am. She called upon Brodays Galgallo to lead the meeting with Prayer. Later she thanked and complemented members for prompt turn up. She further touched on the progress being made since the SACCO was formed, and the achievements. She once more thanked all and blessed the meeting for its deliberations and declared the meeting officially open.

Min 2/5/2022: Reading of Previous Minutes

The Secretary read through the content of previous minutes word by word & slowly for all present to follow. It was confirmed as true copy of the days deliberations by Wako Guyo and Daki Roba.

Min 3/5/2022 - Proposal submitted to KCSAP & Achievements
members discussed at length on proposal submitted ~~and~~ to KCSAP and ^{how} all the required conditions were met. shared all the projects they want to carry out.

Achievements

members were informed how they got 10,000,000 K from ^{KCSAP} the and conditions required where members have to fulfill in the same meeting and minuted to the bank.

Min 4/5/2022 KCSAP Conditions + Solutions

KCSAP - want the SACCO to open own account with 35% in the account. where members calculated and found to have 900,000 K in the new account. So members discussed for almost two hours where they all agreed to use 900,000 K from Goro-Roba Savings and Cooperative Society limited to open new account (both in Equity bank - Marsabit branch) - in ^{name} of Goro-Roba Savings & credit KCSAP account and transfer the 900,000 K from the first account such that KCSAP can send the 10,000,000 K to the account.

- Here all the group officials were told to minute the meeting record and submit to the Equity

bank. Marsabit branch

Mini 5/5/2022 Members appreciations & thanks giving.

Members appreciated the services they have been getting from Equity bank and the achievements the sacco have made - How they started as a group and later developed:


- At same time they gave vote of thanks to KCSAP office and considering the proposal submitted, which will enable the sacco to achieve its objectives and overall goals through:
 - Sound water harvesting
 - Tractor & irrigation systems
 - Environmental development.

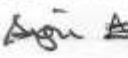
AOB

- members promised to work hard and together to ensure the sacco have achieved its overall goals & objectives. Having finished all the agendas for the day, the meeting ended at 12:45pm

Date for the next meeting was scheduled to be on 30th-05-2022 at same venue and time



Minute Confirmed
by Bokayo walich Roba
Sign - 
Chair lady

Recorded by
Asili Radwa Kosa
Sign 
Secretary

Annex 4: Copies of attendance list during Public participation

GORO ROBA SACCO MEMBERS

SAVING AND CREDIT CO-OPERATIVE SOCIETY LIMITED

Activity: Public Participation Meeting Held in Gadamoji Social Hall on 15/05/2022

Participant Lists

SN	NAME	ID NO	GENDER	CONTACT	Signature
1.	DIDA FORA SHUNE	0212979	M	0791321219	<i>[Signature]</i>
2.	HALKANO DIID MEGA	36176132	M	074230019	<i>[Signature]</i>
3.	DAKI BORU GONICHA	9561244	F	0741259548	<i>[Signature]</i>
4.	BORU GORICHA KATELO	0210696	M	0729672322	<i>[Signature]</i>
5.	JIRM NURA GINDICHA	7146827	M	0746012586	<i>[Signature]</i>
6.	RUFO DENG DUBA	13804072	F	0798375601	<i>[Signature]</i>
7.	SARITE MOLU GOLLO	22818217	M	0711573619	<i>[Signature]</i>
8.	HASSAN WARIO WAKO		M	0746758228	<i>[Signature]</i>
9.	JILLO GALMA JILLO	7146706	M	0707028236	<i>[Signature]</i>
10.	SAFIA JILLO GALMA	36860456	F	0769205955	<i>[Signature]</i>
11.	BORU ADIO HARO	27585581	M	0707277466	<i>[Signature]</i>
12.	MIDINA ROB GODANA	40757816	F		<i>[Signature]</i>
13.	JILLO GUYO WAQO	24646986	M	0745560456	<i>[Signature]</i>
14.	WAKO DENG WARIO	0727179694	M	3425882	<i>[Signature]</i>
15.	DIRAMU GODANA GUYO	0211729	F		<i>[Signature]</i>
16.	KABALE DADACH ISAKO	0627170	F	0710466212	<i>[Signature]</i>
17.	KABALE GALGALO GILLA	21620477	F	0792785643	<i>[Signature]</i>
18.	BOKAYO JIRM GALMA	39769147	F	0703713572	<i>[Signature]</i>
19.	BOKAYO GUYO ADI	24686447	F		<i>[Signature]</i>
20.	DAKI GUYO JARSO	012281	F	0713369732	<i>[Signature]</i>
21.	YATTANE DID KATELO	0203353	F	0795335680	<i>[Signature]</i>



ESIA (SPR) For The Proposed Kales and Assorted Vegetables Aggregation, Value Addition and Marketing Enhancement Project at
Goro Roba Farmers Marketing Cooperative Society Ltd

22.	DIRAMU DUB GUYO	26056433	F	0725648064	<i>[Signature]</i>
23.	LOKHO BORU GODANA	36376069	F	0748064000	<i>Lokho</i>
24.	JILLO DUB KONCHORO	8735413	F	0792072156	<i>Jillo</i>
25.	JILLO TADI ASUMA	8735488	F		<i>[Signature]</i>
26.	ADI DIMA DIDA	24653597	F	0716374433	<i>[Signature]</i>
27.	BONSA DENG BORU	011828	F		<i>[Signature]</i>
28.	KABALE DADACH WAQO	0627170	F	070682891	<i>[Signature]</i>
29.	BOKAYO MURQUI HUQA	0205454	F	0746033125	<i>[Signature]</i>
30.	DIRAMU GALMA GALGALLO	354383	F	0741789646	<i>[Signature]</i>
31.	DIQO ROB GOLICHA	2147149	F	0793764697	<i>[Signature]</i>
32.	GUYATU HALAKE GOLICHA	39659603	F	0743091449	<i>[Signature]</i>
33.	ROBE QANCHI KUSHUNA	0364757	F	0715625479	<i>[Signature]</i>
34.	BOKAYO GARM GALGALO	11504433	F	0768915933	<i>[Signature]</i>
35.	TUME HALAKE DACHA	30302094	F	0795331328	<i>[Signature]</i>
36.	SOLOMON TARI GOLICHA	35367993	M	070766496	<i>[Signature]</i>
37.	SALLO GARM GALGALLO	12754073	F		<i>Sallo</i>
38.	BOKAYO MALICHA	0211858	F	0720553667	<i>[Signature]</i>
39.	HAGUDHO HALIMA	20810148	F	0718501500	<i>[Signature]</i>
40.	ASILI GADIRO	35361517	F	113428958	<i>Asi</i>
41.	ELEMA MAMO	21032103	F	0718355977	<i>[Signature]</i>
42.	SOMO WARIO	13729710	M	0712870101	<i>[Signature]</i>
43.	ELEMA GALMA	20054448	F	0705065507	<i>[Signature]</i>
44.	BOKAYO GALGALLO	20247684	F	0712756399	<i>[Signature]</i>
45.	GUYO JILLO	9560146	M	0712317241	<i>[Signature]</i>
46.	FATUMA DENG	9561231	F	0742576322	<i>[Signature]</i>
47.	FATUMA BORU	9847373	F	0726486739	<i>[Signature]</i>
48.	BOKAYO ABDUBA	20793034	F	0718426921	<i>[Signature]</i>



ESIA (SPR) For The Proposed Kales and Assorted Vegetables Aggregation, Value Addition and Marketing Enhancement Project at
Goro Roba Farmers Marketing Cooperative Society Ltd

49.	JILLO BORU ABDUBA	23855363	F	0704504998	Jillo
50.	BUKE DADACHA	7146963	F	0701024948	
51.	SAFIA WAQO	23393875	F	0790630118	
52.	WAKO BORBORE	38776019	M	0707428680	Wako
53.	DAKI ROB WATICHA	22817991	F	0791812874	
54.	GALGALLO MAMO	9560102	M	0715821689	
55.	TALASO GOLICHA	12432677	F	0795331256	
56.	QABALE DUBA QAMALE	25983192	F		
57.	DAKI WAKO ELEMA	2887341	F	0716184885	
58.	GUYATU MAMO	9560046	F	0799694837	
59.	DAKI ABUKUDO	22314206	F	0711480627	
60.	ROB GODANA	9560002	M	0703160773	Rob
61.	JILLO WAQO GOLICHA	0597530	M	0724962788	Jillo
62.	BOKAYO GUYO	24645516	F		
63.	DARMI SORA JILLO	9179515	F	0790043402	
64.	QABALE ALI BORBORI	25692386	F	0757578116	Qabale
65.	KABALE GODANA	13729469	F	0710420681	
66.	BUKE SUKE DERA	8734194	F	0741271308	Buke
67.	SOMO ALI BORU	35365610	M	0742233728	
68.	BUKE WARJO JARSO	071463038	F	0798790607	
69.	SADIA MALICH BORU	34725851	F	115354488	Sadia
70.	RUKIYA NURA HALAKHE	0632781	F	0743785128	
71.	KABALE ADHI SAMTE	21628058	F	0702114595	
72.	YUBO DENGE	36653456	F	0743268709	Yubo
73.	KABALE ALI BORU		F	0795330988	Kabale
74.	GUYO WOLENSU		M	0712445937	Guyo



Annex 5: Sample Stakeholder consultation checklist

STAKEHOLDERS CONSULTATION CHECKLIST

Name of Project: Proposed Kales and assorted Vegetables Aggregation, Value Addition and Marketing Enhancement Project at Goro Roba Farmers Marketing Cooperative Society Ltd in Sagante/Jaldesa Ward, Saku Sub County, Marsabit County.

No.	Topic/Questions	Responses (Comments, concerns and recommendation)
	As far as your institutional roles, functions and responsibilities are concerned, what do you think should be taken into consideration during the construction and operation of the proposed project?	<ul style="list-style-type: none"> - <u>Setting of the project</u> (communal impact assessment) - Capacity building - stake holder contribution in knowledge & Technical Advice
	What are your comments/ suggestions/ recommendations with regard to the proposed project?	<ul style="list-style-type: none"> ① enough water storage ② proper fencing ③ right inputs + Net shades
	Any other aspect you would like to share for the proposed project?	<ul style="list-style-type: none"> - Chain link from production, processing, value addition + - market link

Name Simo Wani Institution Goro Roba Farmer's marketing co-op
 Position member Sign [Signature]

COUNTY COORDINATOR
 KENYA CLIMATE SMART AGRICULTURE PROJECT
 (KCSAP)
 P.O. BOX 4-60500 MARSABIT

STAKEHOLDERS CONSULTATION CHECKLIST

Name of Project: *Proposed Kales and assorted Vegetables Aggregation, Value Addition and Marketing Enhancement Project at Goro Roba Farmers Marketing Cooperative Society Ltd in Sagante/Jaldesa Ward, Saku Sub County, Marsabit County.*

No.	Topic/Questions	Responses (Comments, concerns and recommendation)
	As far as your institutional roles, functions and responsibilities are concerned, what do you think should be taken into consideration during the construction and operation of the proposed project?	want all set and well designed project in the process - direction through sponsor with all stakeholders + all Saku members on site.
	What are your comments/ suggestions/ recommendations with regard to the proposed project?	Definitely the project will not only benefit members but all entire neighbours and will become a roll - model.
	Any other aspect you would like to share for the proposed project?	Need quality for and from the project-

Name Asili Gadoo Idosa Institution Goro-Roba farmers market Co-Soc
 Position Treasurer Sign [Signature]

COUNTY COORDINATOR
 KENYA CLIMATE SMART AGRICULTURE PROJECT
 (KCSAP)
 P.O. BOX 4-60500 MARSABIT

STAKEHOLDERS CONSULTATION CHECKLIST

Name of Project: *Proposed Kales and assorted Vegetables Aggregation, Value Addition and Marketing Enhancement Project at Goro Roba Farmers Marketing Cooperative Society Ltd in Sagante/Jaldesa Ward, Saku Sub County, Marsabit County.*

No.	Topic/Questions	Responses (Comments, concerns and recommendation)
	As far as your institutional roles, functions and responsibilities are concerned, what do you think should be taken into consideration during the construction and operation of the proposed project?	<i>Important project for stranded - Agro - Agro - Pastoral Societies in days - Alternative hope for drought crisis.</i>
	What are your comments/ suggestions/ recommendations with regard to the proposed project?	<i>- ease of livestock and Agricultural food products will have solution from the project - Need - urgent solution</i>
	Any other aspect you would like to share for the proposed project?	<i>- The perspective in minds of Arid Semi-Arid lands in Kenya will benefit & transform from the project</i>

Name Hagnidho Halima Institution Goro - Roba Farmers market Co. Soc
 Position Treasurer Sign Hast



Annex 6: Sample of duly filled questionnaire

ESIA-SPR QUESTIONNAIRE
FOR THE PROPOSED KALES & ASSORTED VEGETABLES AGGREGATION,
VALUE ADDITION & MARKETING ENHANCEMENT PROJECT AT GORO-ROBA
PRODUCER ORGANIZATION IN SAKU SUB COUNTY, MARSABIT COUNTY

The ESIA/EA Experts are carrying out Environmental and Social Impact Assessment for the Proposed Kales and assorted Vegetables Aggregation, Value Addition and Marketing Enhancement Project at Goro-Roba Farmers Marketing Cooperative Society Ltd in Sagante/Jaldesa Ward, Saku Sub County, Marsabit County. In order to ensure environmental sustainability of the project, the proponent wishes to meet the requirements of Environmental Management and Coordination Act (EMCA, 1999) under the jurisdiction of National Environmental Management Authority (NEMA) in the object of Environmental (Impact Assessment and Audit) (Amendment) Regulations, 2019, the Legal Notice No. 32 and Schedule 2 of EMCA 1999.

SECTION 1: RESPONDENT'S DETAILS

NAME: SOMO WARIO TEL: 072570101

ID. NO: 13729710 RESIDENCE: Dachache SIGN: [Signature]

Gender Male Female

Age 18-30 30-45 Above 46

Distance from your residence to the proposed project
Less than 5KMs 5-10 KMs above 10KMs

SECTION 2: QUESTIONS ON PROJECT AWARENESS

Are you aware of the proposed project intended for Proposed Kales and assorted Vegetables Aggregation, Value Addition and Marketing Enhancement Project?
(Yes) (No)

Do you support the activities of the proposed project and should the project be implemented as proposed?
Yes No

IF No, Kindly state why

COUNTY COORDINATOR
KENYA CLIMATE SMART AGRICULTURE PROJECT
(KCSAP)
P.O. BOX 4-60500 MARSABIT

SECTION 3: QUESTIONS ON IMPACTS

What positive impacts do you think will result from the implementation of the proposed project?

No.	Impact	Enhancement Measure
1	Food security will be developed	Health status of vulnerable will improve
2	livelihoods shall improve	reduced poverty index
3	Income generations ^{from} sales	livelihoods of members will develop
4	Alternative IGA will ^{come up}	Entire region shall transform

In your own view, are there any negative Social or Environmental impacts associated with the proposed project?

(a) Yes (b) No If Yes, please list them

(i) Environmental Concern

No.	Environmental Concerns	Mitigation Measures
	Kale project is valuable ^{only} in	— Need alternative measures
	motivating & quick returns - but	by use of Organic Practices
	the Agronomical Practices need	- intensive capacity
	several chemicals for production	building

(ii) Social concerns

No.	Social Concerns	Mitigation Measures
	- by virtue that most	As land is available - the
	members are from pastoral	project is able to change

COUNTY COORDINATOR
 STATE SMART AGRICULTURE PROJECT
 (KCSAP)
 P.O. BOX 4-00500 MARSABIT

background & have lost limited lives of so many - only need
to drought - kale can be alternative enough capacity building livelihood transformation to succeed.

SECTION 4: PERSONAL OBSERVATION

Give any other information that may be necessary concerning the proposed Project.

The project is going to be a solution to climate change impacts - health status of vulnerable members will improve in some generations will be sustainable with value addition, innovation to have manageable projects will develop + other surrounding communities will benefit from the products and at same time may copy to have increased production in the area to add so many others in and areas.

Thank you for your comments

COUNTY COORDINATOR
KENYA CLIMATE SMART AGRICULTURE PROJECT
(KCSAP)
P.O. BOX 4-60500 MARSABIT

ESIA-SPR QUESTIONNAIRE

FOR THE PROPOSED KALES & ASSORTED VEGETABLES AGGREGATION,
VALUE ADDITION & MARKETING ENHANCEMENT PROJECT AT GORO-ROBA
PRODUCER ORGANIZATION IN SAKU SUB COUNTY, MARSABIT COUNTY

The ESIA/EA Experts are carrying out Environmental and Social Impact Assessment for the Proposed Kales and assorted Vegetables Aggregation, Value Addition and Marketing Enhancement Project at Goro-Roba Farmers Marketing Cooperative Society Ltd in Sagante/Jaldesa Ward, Saku Sub County, Marsabit County. In order to ensure environmental sustainability of the project, the proponent wishes to meet the requirements of Environmental Management and Coordination Act (EMCA, 1999) under the jurisdiction of National Environmental Management Authority (NEMA) in the object of Environmental (Impact Assessment and Audit) (Amendment) Regulations, 2019, the Legal Notice No. 32 and Schedule 2 of EMCA 1999.

SECTION 1: RESPONDENT'S DETAILS

NAME: HAGUNDO HALIMA ... TEL: 0718501500

ID. NO: 20810148 RESIDENCE: Dirib SIGN: Halima

Gender Male Female
Age 18-30 30-45 Above 46

Distance from your residence to the proposed project
Less than 5KMs 5-10 KMs above 10KMs

SECTION 2: QUESTIONS ON PROJECT AWARENESS

Are you aware of the proposed project intended for Proposed Kales and assorted Vegetables Aggregation, Value Addition and Marketing Enhancement Project?

(Yes) (No)

Do you support the activities of the proposed project and should the project be implemented as proposed?

Yes No

IF No. Kindly state why



SECTION 3: QUESTIONS ON IMPACTS

What positive impacts do you think will result from the implementation of the proposed project?

No.	Impact	Enhancement Measure
	- we shall be able to Educate & enable medication for farmers	- from production, Processing + value chain sales
	- Our lives shall be better from the knowledge.	- income generated from the Project

In your own view, are there any negative Social or Environmental impacts associated with the proposed project?

(a) Yes (b) No If Yes, please list them

(i) Environmental Concern

No.	Environmental Concerns	Mitigation Measures
	- Need priority involvement of Experts	- Need require enough Capacity building
	- Avoidance of environmental pollution & effects	- Extension service advice

(ii) Social concerns

No.	Social Concerns	Mitigation Measures
	- may be foreign to Pastoral People who dont understand values of green leaves	Capacity building on nutritative values of the product.

COUNTY COORDINATOR
KENYA CLIMATE SMART AGRICULTURE PROJECT
(KCSAP)
P.O. BOX 4-80500 MARSABIT

SECTION 4: PERSONAL OBSERVATION

Give any other information that may be necessary concerning the proposed Project.

The project is very important cope for the stranded communities due to climate change -- because it give hope + alternative solution to drought crises e.g. drought -- death -- livelihoods of livestock and food crops which is assumed of natural.

Thank you for your comments

COUNTY COORDINATOR
KENYA CLIMATE SMART AGRICULTURE PROJEC
(KCSAP)
P.O. BOX 4-80500 MARSABIT

Annex 7: List of Stakeholders consulted

No.	Stakeholder	Number consulted	Relevance
1.	Supervisory Committee	3	Ensures that the strategic objectives, as contained in the society's plan, are achieved; and that all monitoring, evaluation and financial controls remain in place and are upgraded regularly.
2.	Management Committee of the Society(Farmers representatives)	6	Responsible for day-to-day running of the organization. It makes managerial decisions which are consequently executed by employees under the direction of the General Manager
3.	Employees	10	Works in the various section of the Farmers' Cooperative Society
4.	Transporters	3	Transporting vegetables collected from the farmers to the societies premise.
5.	Department of Cooperatives	1	Responsible for provision of co-operative education and training services; ensure good co-operative governance; promotion, development and support of co-operative societies; provision of market information and advisory services; conduct inspections and inquiries in Co-operatives; and promotes value addition in co-operative societies
6.	Vegetable farmers	70	Responsible of farming of kales and other vegetables in the farm, daily farming activities and monitoring.
7.	Crop Officers	3	Responsible for capacity building activities related to the kales value chain.
8.	Local leaders(chiefs, area MCA and MP)	3	Responsible for provision of leadership role in the area of work, link between community and government.
	Total	99	

Annex 8: Layout Plan of the Aggregation and value Addition processing plant

Annex 9: Design of the Container



Annex 10: Certificate of Incorporation


REPUBLIC OF KENYA

COUNTY COORDINATOR
KENYA CLIMATE SMART AGRICULTURE PROJECT
(KCSAP)
P.O. BOX 4-60500 MARSABIT

THE CO-OPERATIVE SOCIETIES ACT
(Cap. 490, Section 6 (3))

Certificate of Registration

REGISTRATION No.CS/24394.....

I hereby certify that the society under the name of
.....GORO ROBA SAVINGS AND CREDIT CO-OPERATIVE SOCIETY LIMITED.....
*and its by-laws have this day been duly registered by me in the Register of
Co-operative Societies, in pursuance of the provisions of the Act and the
Rules made thereunder.*

Given under my hand at Nairobi

this.....30TH day of.....AUGUST....., 2019.....


.....GEOFFREY N. NJANG'OMBE.....
Ag. Commissioner for Co-operative Development

CL/0576-50-2/11

Annex 11: Copy of Experts practicing license


nema
nema neta | ohar weta | waha weta

FORM 7 (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/16489
Application Reference No: NEMA/EIA/EL/21396

M/S **JACOB OKAL OHALO**
(individual or firm) of address
P.O. Box 112 -20200 KERICHO

is licensed to practice in the
capacity of a (Lead Expert/Associate Expert/Firm of Experts) **Lead Expert**
registration number **11362**

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

Issued Date: **2/7/2022** Expiry Date: **12/31/2022**


Signature.....
(Seal)
Director General
The National Environment Management Authority

P.T.O.

ISO 9001: 2015 Certified

Goro-Roba Project