



ENVIRONMENTAL AND SOCIAL ASSESSMENT SUMMARY PROJECT REPORT

FOR THE PROPOSED TETRAPACK FINO EXTENSION AT MUKURWEINI WAKULIMA DAIRY LIMITED IN CENTRAL WARD MUKURWEINI SUB COUNTY, NYERI COUNTY

GPS Coordinates Latitude -0.56050, Longitude 37.04600 (0°33'37.8"S 37°02'45.6"E)



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PROJECT SPONSOR

KENYA CLIMATE SMART AGRICULTURE PROJECT (KCSAP)

Client

Wakulima Mukurweini Dairy Limited
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DECLARATION

This Environmental and Social Impact Assessment Project Report (ESIA) Summary Project Report (SPR) for the proposed Tetra Pack Fino Extension for milk value addition at Mukurweini Wakulima Dairy Limited, L.R No. 5979/ /Mukurweini-Othaya Road, Mukurweini Central ward, Mukurweini Sub- County, Nyeri County has been prepared in accordance with NEMA regulations and World Bank environmental and social safeguards policies under the guidance and supervision of a registered NEMA Lead Expert. It meets statutory provisions stipulated in EMCA 2015, the Legal Notice No. 32 and the Environmental (Impact Assessment and Audit) (Amendment) Regulations, 2019; world bank KCSAP triggered policies OP 4.01. I hereby certify that the details herein are correct and true to the best of my knowledge.

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ABBREVIATIONS & ACRONYMS

AEZ	Agro Ecological Zone
AIDS	Acquired Immune Deficiency Syndrome
ASDSP	Agriculture Sector development and Support Program
CEO	Chief Executive Officer
CGN	County Government of Nyeri
CIGS	CIGS Common Interest Groups
COC	Code of Conducts
CRS	Corporate Social responsibility
EDL	Effluent Discharge Licence
EHS	Environment Health and Safety
EMCA	Environmental Management and Coordination Act
EMP	Environmental Management Plan
ESIA	Environmental and Social Impact Assessment
ESMF	Environmental and Social Management Framework
ESMonP	Environmental and Social Monitoring Plans
ESMP	Environmental and Social Management Plan
FIFO	First In First Out
GPS	Geographical Positioning System
GBV	Gender Based violence
GRM	Grievances Resolution Mechanism
HH	House Hold
HIV	Human Immuno-deficiency Virus
KCSAP	Kenya Climate Smart Agricultural Project
KDB	Kenya Dairy Board
KEBS	Kenya Bureau of Standards
KPLC	Kenya Power & Lightening Company
MoALF	Ministry of Agriculture, Livestock & Fisheries
OMUWASCO	Othaya Mukurweini Water Services Company
NEMA	National Environmental Management Authority
NGO	Non-Government Organizations
NLC	National Land Commission
OP	Operational Policy

SOPs	Standard Operations Procedures
TDS	Total Dissolved Solutes
U.H.T	Ultra-Heated Tetrapacks
VMGS	Vulnerable and Marginalized Groups
WB	World Bank
WIBA	Work Injury Benefit Act
WRMA	Water Resources Management Authority

EXECUTIVE SUMMARY

The proposed Tetrapack Fino extension at Mukurweini Wakulima dairy limited in Muhito village, Muhito Sub-location, Gaturia Location, Mukurweini Central Ward Area, in Mukurweini Sub-County, Mukurweini Constituency in Nyeri County at GPS coordinates *Latitude -0.56050, Longitude 37.04600 (0°33'37.8"S 37°02'45.6"E)*. The objective of the project is to address the challenge of glut and price fluctuations in milk marketing through value addition. The project entails construction of a milk processing unit, and equipping with milk value addition machines. The project contributes to the Kenya Climate Smart Project (KCSAP) objective of increasing productivity by providing a reliable market for the milk hence encouraging the farmers to increase production using improved technologies.

The environmental and social impact assessment (ESIA) summary project report (SPR) is based on the recommendation of the County Director of Environment, Nyeri 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. 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 two (2) public meetings, one (1) focused group discussion, key informant interviews and data collection using structured questionnaires from stakeholders. The meetings were held on the 9th January 2021, 15th January 2021 and 27th February 2021 where a total of 74 people (57 male, 17 female) participated.

The major issues raised during the public participation and stakeholder consultation included. The issues raised by the community members touched on requirement for extra space for vehicle parks, monopoly and milk scarcity especially in certain seasons of the year, gender related issues such as lack of youth pro-activeness in dairy farming, and waste

dispersal. The responses to this concerns included factoring the cost of parking expansion in the design, including the youth at all the stages of the project cycle especially in marketing, giving first priority to the locals in employment during construction and operations, sensitizing farmers on the use of climate smart technologies in dairy farming to ensure continuous supply throughout t the year.

The major positive impacts includes reduced post-harvest losses, creation of employment, job opportunities for youths, women, men and marginalized groups in the locality, generation of income, reduction of poverty, wealth, health and asset creation, socio-economic empowerment, improved food and nutritional security; and improved health and sanitation of community members.

The major negative impacts include release of effluent from washing water, solid waste, noise pollution, air pollution, occupational health and safety hazards and soil erosion during constructions, personnel misunderstanding, use of land viable for other alternatives like other development, requirement for parking bays, risk of spread of COVID-19, risk of spread of HIV/AIDs 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.

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 recommends 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 in consultation with relevant stakeholders shall monitor the implementation of the ESMMP and report on compliance.

CHAPTER ONE

INTRODUCTION

1.1 Background Information

Dairy production is one of the major economic activities in Mukurweini constituency in Nyeri County. Nyeri County has eight sub-counties and Mukurweini is the largest producer of fresh milk with over 19,000 pure Friesian breeds producing over 60,000 litres of milk per day. The constituency is also favored by very conducive climate for dairy farming and wide sources of market for cow milk. Mukurweini Wakulima dairy Cooperative Society is one of the oldest and biggest dairy cooperative with close to over 20,400 active dairy farmers comprising of individual producers, common interest groups, youths, women, men and VMGs. Since its inception in the 1990s, the cooperative has grown in leaps and bounds from the few initial members to the current membership and therefore culminating into transformation from a mere few members self-help group to being a multi-sectoral regional giant public limited corporate entity.

The project is supported by Kenya Climate Smart Agriculture through the funding from the World Bank, Government of Kenya, the County Government of Nyeri and community own contribution by Wakulima Dairy Limited. The proposed project involves construction 2 floor moderate permanent structure to house the milk processing unit, as well as procurement of milk value addition machines in terms of tetra fino packaging equipment). The main aim of the project is to address the challenge of challenge of glut and price fluctuations in milk marketing through value addition by increase on milk shelf life and returns to farmers in Makuruini Sub County. The project is estimated to cost Kshs 64 million.

1.2 The Justification of Project

The proposed project supports the marketing challenges in the milk value chain which is the major barrier to increasing production. It therefore supports the Kenya Climate Smart Agricultural Project (KCSAP) key objective of increasing agricultural productivity, and enhancing of resilience to climate change through the adoption of Climate Smart dairy technologies. The proposed project is expected to benefit both common interest groups and vulnerable and marginalized groups. The project will result in increased returns to farmers, job opportunities and improved food and nutrition security.

1.3 The Summery Project Report Justification

This ESIA (SPR) was based on the recommendation of the County Director of Environment (CDE) following the environmental and social safeguards screening report. The report has been undertaken to fulfill the legal requirements as outlined in Sections 58-69 of the Environmental Management and Co-ordination (Amendment) Act (No. 5 of 2015& 2019) and Part II of the Environmental (Impact Assessment and Audit) Regulations 2003 and the NEMA public notice on processing of EIA reports of 12th March 2020.

1.4 Objectives of Environmental and Social Impact Assessment (ESIA)

The specific objectives of the SPR are to:

- Collect and analyze baseline information for physical, biological and socio-economic environments in the project area
- Discuss the legal and regulatory issues associated with the proposed project;
- Predict and assess the potential impacts of the project
- Propose appropriate mitigation measures for any negative impacts and enhancement measures for the positive impacts resulting from implementing the project
- Conduct public participation so as to incorporate their views during project implementation
- Prepare an environmental and Social Impacts management plan
- Prepare a Summary Project Report (SPR) for submission to NEMA for approval.

1.5 Approach and Methodology of Summery Project Report

The ESIA Summery Project Report included Environmental and Social screening, scoping, desk review, field visit, public participation and stakeholder consultation and preparation of draft report.

1.5.1 Environmental and Social Screening

This was done using the Standard World Bank and KCSAP scheduled screening list. (See the filled screening list on annex 1 in the report). The Screening procedure was applied to determine whether the project had an Environmental and social Impacts, of scale and magnitude liable to be subjected to any of the appropriate environmental and social safeguards instruments and frameworks as required under EMCA (Cap. 2000), World Bank Operation procedures, KCSAP, Local, regional and International Practices, policy, legal and institutional

framework. The exercise was done by the lead team in company of NEMA officials, collaboration with KCSAP team, Proponent and the local leaders and the proposed project was considered of significant magnitude besides reflecting some alteration of the landscape and hence finally qualified for ESIA.

1.5.2 Scoping

This was undertaken to determine the extent of the study. In this regard, terms of reference were drawn to define the scope of the study.

1.5.3 Desk Review

The assessment team used both primary and secondary data. Primary data was collected through site visits and public consultations. While at the site, the consultant used key informant interviews, semi- structured interviews, observations and focus group discussions. Secondary data was obtained through literature review. Information obtained through literature review enabled us to know:

1.5.4 Information desk Survey

This involved visiting of the company offices where policy, permits, licenses, records, operation manuals and production documents were perused. Various sections were visited and their respective managers were also consulted and also briefed and given their specific terms of reference on the various type of assistance needed for ESIA (SPR).

1.5.5 Site Visits and Field data Collection

We visited the project site in order to:

- Develop a better understanding of the project area;
- Consult the local people about the proposed project and document their views;
- Carry out site cognizance and baseline survey;
- Assess project impacts

1.5.6 Consultative Community and Public Participation (CPP)

Consultation was also undertaken as part of the ESIA (SPR) in order to obtain the views of members of the immediate community and interested and affected groups within the site's immediate area of influence. The consultation was done with randomly selected people in the neighbourhood of the proposed site and involved use of a semi-structured interviews.

Some of the key considerations were opinions of local leaders, local administration, members of the larger public, immediate neighbours, direct beneficiaries, service providers and the neighbouring public institutions such as churches and schools. The approaches used during the public participation and stakeholder consultation included one (1) public meetings, three (3) focused group discussions targeting the directors, the management committee and employees of the company, key informant interviews and data collection using structured questionnaires from stakeholders. The meetings were held on the 9th January 2021, 15th January 2021 and 27th February 2021 where a total of 74 people (57 male, 17 female) participated. A detailed report on the outcome is presented in chapter four of this report.

1.6 Organization of the Summary Project Report

This Summary Project Report is organized into nine substantive chapters. Chapter one presents the introductory chapter, Chapter 2 gives nature of the project, Chapter 3 gives 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), while Chapter 7 wraps with the conclusions and recommendations followed by references and annexes.

CHAPTER TWO

NATURE OF THE PROJECT

2.1 Introduction

This chapter gives details of the, design, proposed works, planned activities, equipment/materials and project cost of the proposed establishment of proposed Tetra Pack Fino Extension for milk value addition at Mukurweini Wakulima Dairy Limited.

2.2 Project Design

The proposed facility will comprise of milk reception area, quality control/sampling room, processing unit installed with tetra Fino packaging machine, warehouse (milk storage room with a cold facility), milk reception room and an office space (see designs in annex 13)

2.3 Project Activities

2.3.1 Activities during Construction Phase

a) Pre-construction Investigations

The implementation of the project's design and construction phase will start with thorough investigation of the site soil physical, chemical and geological properties and water moisture determination.

b) Sourcing and Transportation of Construction Materials

Building materials will be transported to the project site from their extraction, manufacture, or storage sites using transport trucks/Lorries. The building materials to be used in construction of the project will be sourced from Mukurweini areas and locally. Greater emphasis will be laid on procurement of building materials from within the local area, which will make both economic and environmental sense as it will reduce distance of travel by the materials transport vehicles.

c) Excavation and Foundation Works

Excavation will be carried out to prepare the site for construction and laying of foundation and drainage systems.

d) Masonry, Concrete Work and Related Activities

The construction of floors and drainage among other components of the project will involve a significant masonry work and related activities. General masonry and related activities will include concrete mixing, plastering, slab construction, construction of foundations and curing of fresh concrete surfaces. Concrete and mortar will mainly be done in the main ware house and the platforms upon which the shipped containers and the tanks will be placed on. Although masonry activities are generally known to be labour intensive, for the project; due to the scale of the development, most of the proposed construction works will be done manually.

e) Roofing and Sheet Metal Works

Roofing activities will include sheet metal cutting, raising the roof materials such as iron sheets and structural timber to the roof and fastening the roofing materials to the roof. The grading and storage areas will also be installed with translucent sheets on the roofs.

f) Electrical Works

Electrical works during construction will include installation of electrical gadgets and appliances including electrical cables, lighting apparatus etc.

The facility will require installation with a 3-phase connection from the network that is already connected within the proposed site.

2.3.2 Description of the Project's Operational Activities

- a) Bulking:** The bulking process will involve aggregation of delivered fresh raw milk, sampling, testing and then storage for processing, or delivery or collection by other bulk buyers/retailers in the major markets of Nyeri, Karatina; Nairobi, Thika, Murang'a, Mombasa, Nakuru, Embu and other areas. Nairobi will receive the largest proportion being a niche market as already established by the current available marketing records. A total of 60,000 liters of fresh milk is expected to be delivered to the niche markets and hence processed, packed and collected for market every day.
- b) Processing:** The processing will be done by subjecting received quality raw milk into the newly installed pasteurization line (a complete royal fresh and yoghurt production line with a capacity of 3000 litres per hour). The line was acquired in 2015, and is a complete line with its auxiliary equipment namely:- high pressure homogenizers, HS pasteurizer, Fermentation tanks, sterile storage tanks, double filters, plate heaters, buffer tanks, water treatment system, positive pumps, yoghurt cup filler machine, spare parts, and stainless

control panels, automatic cup filling, sealing machine and an ink jet printer.

- c) **Packaging and Marketing;** the processed milk will be package in tetra pack using tetra pack Fino equipment. The low temperature pasteurized short shelf-life royal fresh milk packaged will be packaged in polythene for direct consumption. The milk will also be packaged in different shapes and sizes, as demanded by the market.

2.5 Project Cost

The proposed project is estimated to cost Kshs 64 Million including the cost of implementation of the ESMMP

CHAPTER THREE

THE LOCATION OF THE PROJECT

3.1 Introduction

This chapter presents a detailed description of the project location of the proposed project, proof of land ownership, supportive environmental infrastructure and conformity to land use plan.

3.2 Description of the Location of the Project

3.2.1 Location of the Project

The project is located in Muhito village, Muhito Sub-location, Gaturia Location, Mukurweini Central Ward Area, in Mukurweini Sub-County, Mukurweini Constituency in Nyeri County at GPS Coordinates *Latitude -0.56050, Longitude 37.04600 (0°33'37.8"S 37°02'45.6"E)*. The site is situated within the heart of Mukurweini Town. The site is located about 27kilometres East-west of Nyeri town, in Mukurweini (Municipality) off the Mukurweini-Karatina road



Figure 1 GPS Coordinates for Mukuruini Wakulima Dairy Limited (google map)

3.2.2 Proof of Land Ownership

The proposed project site is owned by Mukurweini Wakulima Dairy Limited Company with land registration L.R No. **5279** (see annex 4)

3.3 Supportive environmental and social management infrastructure

The town is well served, with a good sewerage system managed by the County Government of Nyeri. The company has a well-established sewerage system with a septic tank and septic tank for management of both solid and liquid waste. The company also has a well-established drainage system for discharge of storm water.

3.4 Conformity to Land Use Plan and Zonal Plan

The proposed project involves expansion of an existing infrastructure on the land registration L.R No. **5279**. Requisite approvals have been sought and therefore conforms to the land use plan.

CHAPTER FOUR

PUBLIC CONSULTATION AND PARTICIPATION

4.1 Introduction

This chapter outlines the key issues raised by the public on the proposed project. The findings indicate that all the community members support the project as long as they are involved and fully sensitized on the same.

4.2 Objectives of Public Consultation

The purpose for such a process was to identify the positive and negative impacts and subsequently promote and mitigate them respectively. It also helped in identifying any other miscellaneous issues which may bring conflicts in case project implementation proceeded as planned. The need for public consultations as required by EMCA (1999) was to:

- Disseminate and correctly inform the stakeholders about the project, its key components, location and expected impacts.
- Awareness creation on the need for ESIA
- Gather comments, concerns and suggestions of the interested and affected parties,
- Ensure that the concerns of the stakeholders were known to the decision-makers early enough
- Incorporate the information collected into the EIA study

4.3 Methodology of Public Participation and Consultation

The methods used included one (1) public baraza, key informant interview and data collection using structured questionnaire. The process helped to disclose the project components to the community for them to understand the proposed project as well as give their views on the project. The views were recorded (Minutes in annex 16) and summarized below. The public meetings were held on 9th January 2021, 15th January 2021 and 27th February 2021 where a total of 74 people where 57 were males and 17 females participated (attendance in annex 17). Additionally, key informants were interviewed to get in-depth issues concerning the proposed project. Similarly additionally, a stakeholders were consulted to gauge their views on the proposed project. The responses were analyzed and presented below (see a sample of filled questionnaire in annex 18)



Figure 2 Stakeholder Consultation meeting



Figure 3 Public Participation Meeting

4.4 Interested and affected stakeholders consulted

The stakeholders consulted in this study were: dairy farmers, input suppliers, location chief, immediate neighbours and other community members. Also consulted were the representatives of the key relevant departments, government agencies and non-government organization. These included; ASDSP, Mukurweini, Progressive Women Group (as a CBO), OMUWASCO, and Muhito PCEA as faith based organization, Key informants were: 4(1 Chief Officer Agriculture livestock and fisheries officers, 2 officers from Agriculture livestock and fisheries, 1 sub County Administrator) cooperative department, focused group discussion was held with 10 persons categorized as follows: Youth Representatives, women, management committee and Representatives of the Dairy cooperative Questionnaires were administered to 20 persons and 16 were filled and returned and analyzed

4.5 Summary of Issues Raised by the Community and Stakeholders and Response

The following issues were raised by members of the community and stakeholders

- a) **Exploitation by Milk Brokers:** Community members reported that exploitation by milk brokers and spoilage of fresh milk was a serious challenge in the area. They were optimistic that construction of the proposed milk value addition plant would come in handy to address the problem.
- b) **Employment opportunities:** It was recommended by community members present that the local community should be given priority when hiring workers during construction and operations phase of the project.

- c) **Waste Disposal(Grey Water):** It was recommended by community members present and stakeholder that waste from the plant should be treated before discharge as affluent
- d) **Parking space:** There concerns that due to the expansion the available parking was not enough. It was proposed that the parking space should be expanded and that the cost should be included in the project design.
- e) **Leadership Issues:** Participant raised concern over issues in management of the proposed project. It was suggested that a project management committee should be instituted to oversee the management of the project in consultation with the overall management of the company.

1.6 Analysis of responses from the community members interviewed

The results of the responses form the administered questionnaires are presented below

No.	Question	Responses
1	Are you aware of the proposed construction of Tetra pack Fino Extension facility at Wakulima dairy, Mukurweini Central area, for milk value addition?	Yes (100%)
2	Do you support the proposed project in the area?	Yes (100%)Area
3	Do you think this project is suitable and compatible with the surrounding developments	Yes (100%)
4	What are some of the positive impacts you can attach to this project	Increased Production of bulking of Milk, employment and Income generation, area development 67.5%, and other benefits 32.5%
5	What are some of the negative impacts you can attach to this project	None- 58.2%, Waste generation (11.5%), Others (insecurity, misunderstandings, water pollution, traffic issues-30.3%)
6	Are there any sensitive ecosystems within the area (e.g. Wildlife Sanctuaries, swamps, water body, forest, etc.)?	No (100%)
7	Do you think the proposed project will have	Yes (91%), No (9%) and Not

	any Socio- economic impacts on (i) if implemented (ii) if Not Implemented?	Applicable (88%) Others (water
8	What are some of the challenges that you experience in shortage, this area (please tick)	Traffic/Transport, Insecurity, Low prices of milk.
9	Which are some of the infrastructural facilities that you would like to see developed in the area	Factories- 13%, Milk plant -81.1% and Others -5.9%
10	Any other comments/Suggestions you would like to make in relation to this proposed project	Project should include solar power to sustain the project. 74%

CHAPTER FIVE

ANTICIPATED IMPACTS AND MITIGATION MEASURES

5.1 Introduction

This Chapter identifies and discusses both positive and negative impacts associated with the proposed project. The anticipated environmental and Social Impacts could be scalable positive or negative, direct or indirect, reversible or irreversible. The extent of the impacts was determined by their significance, adversity, temporary or permanent, long-term or short-term, localized or widespread. The anticipated impacts are discussed in three phases namely: construction, operational and decommissioning phases.

5.1 Environmental and Social Impacts during Construction Phase

5.1.1 Positive Impacts

a) Temporary Employment Opportunities

One of the main positive impacts during the construction phase will be the availability of employment opportunities especially to casual workers and several other specialized workers. Employment opportunities have both economic and social benefit.

5.1.2 Negative Environmental and Social Impacts and Mitigation Measures

a) Shifting of adjacent utilities

Before laying of the foundations, clearing of part of the existing semi-permanent structures such as old stores, utility distribution lines, waste bins, etc, within the compound will be done. Direct impact from such disturbance may cause changes in visual quality, increasing costs of mitigation as well bringing internal disturbance especially to the working population in the company.

Mitigation Measure

- Ensure proper delineation and scaffolding of the project area to be affected by construction works be done during the constructions.
- Strict adherence to required (designed) excavation depths and boundaries.
- Project implementation plans will be developed such that section excavated are worked on and completed before moving to other areas.
- Reshaping, landscaping or rehabilitation of affected sections.

b) Solid and Liquid Waste Generation

The construction works involves activities which may lead to generation of both solid and liquid wastes. These will include rejected, debris and broken construction materials, excavated materials and bulky soils among others. There will also be some solid containers such as cement bags, bentonite residuals and cement bags and other packets with materials and equipment to be used during implementation of the project. The workers at the site will also generate faecal wastes during their day to day operations. The generated waste needs proper handling to prevent diseases, such as cholera, typhoid and diarrhea outbreak on the site. Unless this is addressed, it can prove to be an environmental/health hazard.

Mitigation Measures

- Use an integrated solid and liquid waste management system which includes reduction at source, recycling, re-use, incineration, and sanitary landfills;
- Any remaining waste (paper or polythene containers, cement bags, bentonite, construction debris, etc. shall be safely disposed in designated waste disposal areas before the project is commissioned
- The contractor should use excavated materials for back filling of appropriate areas.
- Construction workers should to dump solid wastes in designated covered dustbins

c) Noise Pollution

The proposed activities is likely to result in noise pollution excavation, human chattering, movement of transport vehicles, concrete mixers, hammering of nails .The site workers and community members are likely to be affected since noise beyond some level is itself a nuisance and thus should be controlled within acceptable limits.

Mitigation Measures

- Any noisy source including equipment, machinery or device shall be mitigated by use of appropriate noise suppression equipment such as mufflers
- Proper maintenance of the construction equipment
- The workers will be supplied with on ear mask where applicable to control excessive noise
- Place noisy equipment in sound proof rooms or in enclosures to minimize ambient noise levels
- No works during the night to prevent disruption of the neighbouring community; and
- Sensitize vehicle drivers and machine operators to switch-off engines of vehicles or generators when not in use and to avoid hooting.

d) Dust Emissions

Particulate matter pollution is likely to occur during site clearance, excavation works and laying of foundations. Ideally, no visible dust should be created nor should exhaust from any equipment be visible for more than 10 seconds. However, the potential impact on air quality will be minimal.

Mitigation Measures

- Ensure that the workers have proper PPEs like dust masks
- Ensure strict enforcement of on-site speed limits
- Ensure Noise survey is regularly done on the site, and
- The equipment used to construct must be fitted with dust suppressors equipment (e.g. water sprays), and pre-start inspection of dust control equipment will be undertaken.

e) Risk of Accidents and Health and Safety Concerns

During construction activities construction workers may encounter occupational health hazards as a result of coming into contact and handling hazardous waste e.g. engine oil and grease. Workers are also exposed to injuries which may result from loading and unloading truck mounted with construction materials, transportation of the ladders, 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 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 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

f) Risk of Oil Spillage

The transport and concrete mixers contains movable parts which will require oiling and greasing to minimize wear and tear. Likewise the truck for transport of construction materials to the site may require oil and other lubricants change. Possibilities of oil spillage contaminating the soil and water within the project areas can therefore be real though on very minimal quantities.

Mitigation Measures

- Safety procedures will be enforced to minimize cases of oil spillage. Such procedures may include maintaining the machinery in specific designated areas designed for such purposes
- Ensure that oil/grease spills and other oils and associated materials (filters, rags and cans) are immediately removed along with all contaminated material and disposed of at an waste disposal site; and
- Ensure that contaminated materials including used/spilled oils/grease as well as other contaminated materials are stored in a banded area before disposal.

g) Risk of spread of HIV/AIDS and sexually transmitted diseases (STDs)

The project will attract new people such as skilled and un-skilled workers, input suppliers, transporters, etc. to the project area and this can lead to several repercussions leading to the spread of the virus. Influx of new people to the project area especially construction workers can affect the number of new cases of HIV/AIDS

Mitigation Measure

- Programs will be developed and integrated into the project implementation for sensitizing the local community and project workers on HIV/AIDS, and sexually transmitted diseases (STDs);
- Review the construction activities to integrate with the HIV/AIDS and STDs sensitization campaigns
- Develop appropriate training and awareness materials for information, Education and Communication (IEC) on HIV/AIDS and STDs
- Identify other players (local CBOs, NGOs and government organizations) on HIV/AIDS and STDs for enhanced collaboration.

h) Health Impact – Spread of CO VID-19 amongst construction workers

During project execution (civil works), many workers will be required to assemble together in consultation engagements, meetings, toolbox talks and even at work sites; varied number of workforce including suppliers of material and services are also expected to come in from

various places in the county which may be COVID-19 hot spots and interaction of workers with the project host community will happen as workers find accommodation close to work sites, and/or return to their homes after works.

Mitigation Measures

- The Contractors will develop 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.
- Mandatory provision and use of appropriate Personal Protective Equipment (PPE) shall be required for all project personnel including workers and visitors;
- Avoid concentrating of more than 15 persons or workers at one location. Where more than one person are gathered, maintain social distancing of 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 sections and meetings and ensure they are used
- Ensure routine sanitization of shared social facilities and other communal places routinely including wiping of work stations, surfaces, door knobs, hand rails etc;

i) Gender Based Violence/Sexual Harassment

The GBV and more so sexual harassment can potentially occur with women being more vulnerable especially when seeking employment during this phase of the project. The Contractor should ensure that this does not happen and should implement the following.

Mitigation Measure

- Sensitizing workers against GBV and sexual harassment
- Have deterrent/punitive measures for any offenders reported.

5.3. Environmental and Social Impacts during Operation Phase

5.3.1 Positive Impacts

a) Increased market access and income to farmers

It is expected that the construction of the plant, will greatly improve the situation by providing a warehouse for storage and value addition and diversification of the packaged milk in terms

of resilient U.H.T in packaged tetra packs hence; improving on quality, income and by large the required market access.

b) Employment Opportunities

It is expected that a lot of the local community members will be employed as drivers, plant attendants, technicians, receptionists, accountants, managers, cooks, cleaners, supervisors, security, cater and cateresses, extension agent, etc. as well as those who will be involved indirectly in agricultural and transport activities.

c) Increased Participation of Youth in Socio-economic Development

By constructing of the plant closer to the communities, the youth will be able to spend their time in other productive activities thereby increasing their participation in socio- economic development. It is also expected that same will improve the economic and social status of even other gender in the locality including men, women and children since there will benefit trickledown.

5.3.2 Negative Environmental and Social Impacts during Operations

a) Risk of Water pollution

There are possibilities of water pollution resulting from leakage of spoilt or rejected milk and milk residues as well as waste discharged from the facility.

Mitigation Measures

- Apply water contamination/pollution control measures such as levelling the project site to reduce run- off;
- Ensure recycling and reused of waste
- Ensure proper treatment and discharge of waste

b) 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 milk packaging materials.

Mitigation Measures

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

- Employees should dump their personal wastes in designated covered dustbins
- Regular maintenance of the sewerage system(septic tank/soak pit) to ensure their effectiveness

c) Generation of liquid Waste

This is likely to result from water used in cleaning the working area, rejected milk 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

d) Noise Pollution

The operations including transportation and factory related activities such as loading and off-loading 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 operations of the proposed project.

Mitigation Measures

- Any noisy source including equipment, machinery or device shall be mitigated by use of appropriate noise suppression equipment such as mufflers
- The employees shall be provided with on ear mask where applicable to control excessive noise
- Place noisy equipment in sound proof rooms or in enclosures to minimize ambient noise levels
- Sensitize vehicle drivers and machine operators to switch-off engines of vehicles or generators when not in use and to avoid hooting.

e) Occupational Health Hazards

During operation occupation health hazards may include fire outbreaks, falls from slippery flow and injurie from equipment / machine handling.

Mitigation Measures

- 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 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 firefighting equipment are in place and in proper working condition at all times
- Ensure appropriate floor surface in the working areas of the premise
- Ensure proper sanitation and hygiene in the premise

j) Risk of Spread of COVID-19 at the premise

During operation phase there will be a lot of interaction between the employees and the farmers delivering milk as well as the transporters and buyers of processed milk. This poses risk to the persons involved hence appropriate measure need to be put in place to mitigate the risk.

Mitigation Measures

- The project managers shall develop SOPs for managing the spread of Covid-19 during project operations
- Mandatory provision and use of appropriate Personal Protective Equipment (PPE) shall be required for all project personnel including employees and visitors;
- Avoid concentrating of more than 15 persons or workers at one location. Where more than one person are gathered, maintain social distancing of 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
- Install handwashing facilities with adequate running water and soap, or sanitizing facilities at entrance to work sites including consultation sections and meetings and ensure they are used
- Ensure routine sanitization of shared social facilities and other communal places routinely including wiping of work stations, surfaces, door knobs, hand rails.

k) 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 milk sales at household level

Mitigation Measures

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

1) Leadership Conflicts

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

Mitigation Measure

- Establishment of Project management team to oversee the implementation of the project
- Developing clear by laws to guide the implementation process
- Instituting a grievance redress mechanism at community level comprising of members of project management team, local administration and Church leaders
- Capacity building of the management team on leadership and governance

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 community gets another alternative business. During this project, the proponent will be expected to demolish the physical structures, change use, remove elevated water tank etc., 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 Nyeri 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 on 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

6.0 Introduction

This chapter presents the Environmental and Social Management Plan (ESMP) that will be implemented by the proponent to prevent, or reduce significant negative impacts to acceptable levels. This plan is not static but will be updated throughout the project life cycle.

The purpose of the Environmental and Social Management Plan (ESMP) for the proposed Project is to provide mitigation measures for the significant negative environmental impacts. The objectives of the ESMMP are

- To clearly show how the project will manage the negative impacts while enhancing the positive ones to ensure a project that is economically, socially and environmentally sustainable
- To provide evidence of practical and achievable plans for the management of the proposed project
- To provide the Proponent and the relevant Lead Agencies with a framework to confirm compliance with relevant laws and regulations; and
- To provide community with evidence of the management of the project in an environmentally and socially acceptable manner.

6.2 Monitoring

Environmental monitoring is an applied research and analysis activity to support cost effective and timely assessment of the status and trends in environmental and social conditions in response to different project activities. Also, it is necessary to assess the project performance against the desired mitigation measures, and compliance with the regulations and standards in order to protect people's health and safety, and the environment health and performance. Monitoring activities will be applied to direct monitoring indicators whenever applicable. Indirect indicators can be monitored instead of direct ones whenever it would provide acceptable indication of the occurrence of specific impacts and/or compliance with provisions of the ESMP

6.3 Environment & Social Impacts Management and Monitoring Plan

6.3.1 Environment & Social Impacts Management and Monitoring Plan during construction Phase

Environmental and Social Impact	Mitigation measures	Monitoring Indicators	Responsibility	Means of Verification	Time frame	Est. Cost (KES)
Shifting of adjacent utilities	<ul style="list-style-type: none"> ○ Ensure proper delineation and scaffolding of the project area to be affected by construction works be done during the constructions. ○ Strict adherence to required (designed) excavation depths and boundaries. ○ Project implementation plans will be developed such that section excavated are worked on and completed before moving to other areas. ○ Reshaping, landscaping or rehabilitation of affected sections. 	<p>No. plans developed</p> <p>Level of adherence to design</p> <p>Delineation/scaffolding done</p>	Contractor Supervising Engineer	Design Reports Project implementation plans Photos	6 Months	n/a
Solid and liquid waste generation	<ul style="list-style-type: none"> ○ Use an integrated solid and liquid waste management system which includes reduction at source, recycling, re-use, incineration, and sanitary landfills; ○ Any remaining waste (paper or polythene containers, cement bags, bentonite, construction debris, etc. shall be safely 	<p>Integrated solid and liquid management in place</p> <p>No of designated waste disposal sites</p> <p>No. of dust bins installed within the site</p>	Contractor Supervising Engineer	Report on waste management	6 Months	50,000

	<p>disposed in designated waste disposal areas before the project is commissioned</p> <ul style="list-style-type: none"> ○ The contractor should use excavated materials for back filling of appropriate areas. ○ Construction workers should to dump solid wastes in designated covered dustbins 					
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 ○ Proper maintenance of the construction equipment ○ 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 ○ Sensitize vehicle drivers and machine operators to switch-off engines of vehicles or generators when not in use and to avoid hooting. 	<p>No. of noise suspension equipment integrated in machinery</p> <p>No of workers provided with ear masks</p> <p>No of operating hours in a day</p> <p>No of drivers/machine operators sensitized on ways of reducing noise</p> <p>No of incidences of noise disturbance reported</p>	Contractor Supervising	Site Report Incidence Report	6 Months	20,000
Dust Emissions	<ul style="list-style-type: none"> ○ Ensure that the workers have proper PPEs like dust masks ○ Ensure strict enforcement of on-site speed 	<p>No. of workers having appropriate PPEs</p> <p>No of noise surveys</p>	Contractor Supervising Engineer	Noise survey report Daily monitoring	6 Months	10,000

	<ul style="list-style-type: none"> limits ○ Ensure Noise survey is regularly done on the site, and ○ The equipment used to construct must be fitted with dust suppressors equipment (e.g. water sprays), and pre-start inspection of dust control equipment will be undertaken. 	<p>done on site</p> <p>No of equipment fitted with dust suppressors</p>		report		
Risk of accidents and health and safety concerns	<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 are inspected before use for appropriate safeguards and that the machine operators are trained on machine safety ○ 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 provided with PPEs</p> <p>No. of equipment inspected</p> <p>No of road safety signs in place</p> <p>Temporary scaffolding in place</p> <p>No of incidences reported</p>	Contractor Supervising Engineer	<p>Photos of road safety signs</p> <p>Inspection report</p> <p>Receipts of purchase of PPEs</p> <p>Incidence report</p>	6 Months	30,000
Risk of oil spillage	<ul style="list-style-type: none"> ○ Safety procedures will be enforced to minimize cases of oil spillage. Such 	Safety procedures in place	Contractor Supervising	Daily monitoring report	6 Months	20,000

	<p>procedures may include maintaining the machinery in specific designated areas designed for such purposes</p> <ul style="list-style-type: none"> ○ Ensure that oil/grease spills and other oils and associated materials (filters, rags and cans) are immediately removed along with all contaminated material and disposed of at an waste disposal site; and ○ Ensure that contaminated materials including used/spilled oils/grease as well as other contaminated materials are stored in a banded area before disposal. 	No. of disposal sites in place	Engineer			
Risk of spread of HIV/AIDS and sexually transmitted diseases (STDs)	<ul style="list-style-type: none"> ○ Programs will be developed and integrated into the project implementation for sensitizing the local community and project workers on HIV/AIDS, and sexually transmitted diseases (STDs); ○ Review the construction activities to integrate with the HIV/AIDS and STDs sensitization campaigns ○ Develop appropriate training and awareness materials for information, Education and Communication (IEC) on HIV/AIDS and 	<p>No. of programs developed</p> <p>No. of workers sensitized on HIV/AIDS</p> <p>No. of training materials</p> <p>No. of incidences reported</p>	Contractor Supervising Engineer MOH	Daily monitoring Incidence Report	6 Months	10,000

	<p>STDs</p> <ul style="list-style-type: none"> ○ Identify other players (local CBOs, NGOs and government organizations) on HIV/AIDS and STDs for enhanced collaboration. 					
Health Impact – Spread of COVID-19 amongst construction workers	<ul style="list-style-type: none"> ○ The project managers shall develop 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. ○ Mandatory provision and use of appropriate Personal Protective Equipment (PPE) shall be required for all project personnel including employees and visitors; ○ Avoid concentrating of more than 15 persons or workers at one location. Where more than one person are gathered, maintain social distancing of 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 ○ Install handwashing facilities with adequate 	<p>No of SoPs in place</p> <p>No of hand washing facilities installed</p> <p>No of incidences reported</p> <p>Level of adherence to Covid-19 protocols</p> <p>No of workers sensitized on Covid-19</p>	<p>Contractor</p> <p>Supervising Engineer</p> <p>MOH</p>	<p>Incidence Report</p> <p>Attendance list</p> <p>Photos</p>	6 Months	50,000

	<p>running water and soap, or sanitizing facilities at entrance to work sites including consultation sections and meetings and ensure they are used</p> <ul style="list-style-type: none"> ○ Ensure routine sanitization of shared social facilities and other communal places routinely including wiping of work stations, surfaces, door knobs, hand rails. 					
Gender Based Violence/Sexual Harassment	<ul style="list-style-type: none"> ○ Sensitizing construction workers against GBV/SH ○ Have deterrent/punitive measures for any offenders reported. 	<p>No of workers sensitized on GBV/SH</p> <p>No of incidences reported</p>	Contractor Supervising Engineer	<p>Attendance list</p> <p>Photos</p> <p>Incidence Report</p>	6 Months	10,000

6.3.2 Environment & Social Impacts Management and Monitoring Plan during Operations and Maintenance Phase

Environmental and Social Impact	Mitigation measures	Monitoring Indicators	Responsibility	Means of Verification	Time frame	Est. Cost (KES)
Risk of Water pollution	<ul style="list-style-type: none"> ○ Apply water contamination/pollution control measures such as levelling the project site to reduce run-off; ○ Ensure recycling and reused of waste ○ Ensure proper treatment and discharge of waste 	<p>No of water pollution control measures in place</p> <p>Level of recycling and reuse of waster</p> <p>No of test done on the effluent</p>	<p>Proponent Management committee</p> <p>OMUWASCO</p> <p>TWSB WRA</p>	<p>Monthly Reports</p> <p>Effluent test Report</p>	O&M	n/a

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 their personal wastes in designated covered dustbins ○ Regular maintenance of the sewerage system(septic tank/soak pit) to ensure their effectiveness 	<p>Amount of solid waste generated</p> <p>No of covered bins installed</p> <p>No of maintenance done on the sewerage system</p>	Proponent Management committee	Monthly Reports	O&M	50,000
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 	<p>Amount of liquid waste generated</p> <p>Level of recycling of liquid waste</p>	Proponent Management committee	Monthly reports	O&M	n/a
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 employees shall be provided with on ear mask where applicable to control 	<p>No of employees provided with ear masks</p> <p>No of equipment fitted with mufflers</p> <p>No of drivers sensitized on noise suppression</p>	Proponent Management committee	Daily Monitoring report	O&M	50,000

	<p>excessive noise</p> <ul style="list-style-type: none"> ○ Place noisy equipment in sound proof rooms or in enclosures to minimize ambient noise levels ○ Sensitize vehicle drivers and machine operators to switch-off engines of vehicles or generators when not in use and to avoid hooting 	techniques				
Occupation Health Safety Hazards	<ul style="list-style-type: none"> ○ Ensure workers are provided with personal protective equipment and first aid kit ○ Ensure firefighting equipment are in place and in proper working condition at all times ○ Ensure appropriate floor surface in the working areas of the premise ○ Ensure proper sanitation and hygiene in the premise ○ Sensitizing all workers on OHS 	<p>No of workers provided with PPEs</p> <p>No of firefighting equipment installed</p> <p>No. of workers sensitized on OHS</p> <p>No of incidences reported</p>	Proponent Management committee OSH	<p>Attendance list</p> <p>Photos</p> <p>Monthly Report</p> <p>Incidence report</p>	O&M	40,000
Risk of Spread of COVID-19 at the premise	<ul style="list-style-type: none"> ○ The project managers shall develop SOPs for managing the spread of Covid-19 during project operation ○ Mandatory provision and use of 	<p>No of SoPs in place</p> <p>No of hand washing facilities installed</p> <p>No of incidences reported</p>	Proponent Management committee MOH	<p>Daily monitoring Report</p> <p>Incidence Report</p>	O&M	50,000

	<p>appropriate Personal Protective Equipment (PPE) shall be required for all project personnel including employees and visitors;</p> <ul style="list-style-type: none"> ○ Avoid concentrating of more than 15 persons or workers at one location. Where more than one person are gathered, maintain social distancing of 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 ○ Install handwashing facilities with adequate running water and soap, or sanitizing facilities at entrance to work sites including consultation sections and meetings and ensure they are used ○ Ensure routine sanitization of shared social facilities and other communal places routinely including wiping of work stations, surfaces, door knobs, hand rails. 	<p>Level of adherence to Covid-19 protocols</p> <p>No of workers sensitized on Covid-19</p>				
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Gender Based Violence at community level	<ul style="list-style-type: none"> ○ Sensitizing community members against GBV ○ Have deterrent/punitive measures for any offenders reported. 	<p>No of community members sensitized on GBV</p> <p>No of deterrent/punitive measures in place</p>	<p>Proponent Management committee</p> <p>Dept. of Genders and Social Services</p>	<p>Attendance list</p> <p>Photo</p>	O&M	n/a
Leadership Conflicts	<ul style="list-style-type: none"> ○ Establishment of Project management team to oversee the implementation of the project ○ Instituting a grievance redress mechanism at community level comprising of members of project management team, local administration and Church leaders ○ Capacity building of the management team on leadership and governance 	<p>Project Management team in place</p> <p>GRM in place</p> <p>No of trainings conducted</p>	<p>Proponent Management committee</p> <p>Local administration</p>	<p>Monthly report</p>	O&M	n/a

6.3.3 Environment & Social Impacts Management and Monitoring Plan during Decommissioning Phase

Environmental and Social Impact	Mitigation measures	Monitoring Indicators	Responsibility	Means of Verification	Time frame	Est. Cost (KES)
Generation of Solid Waste	<ul style="list-style-type: none"> ○ Waste should be disposed at designated sites approved by the County Government of Nyeri and NEMA 	<p>Amount of solid waste generated</p> <p>No of designated</p>	<p>New user</p> <p>Contractor</p>	<p>Site Report</p>	Decommissioning	n/a

		sites				
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 	No. of workers provided with noise suppression mufflers	New user Contractor	Site report	Decommissioning	n/a
Occupation health safety Issues	<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 	No of workers provided with PPEs No of workers sensitized on OHS No of incidences Reported	New user Contractor	Site report Attendance List Photos Incidence report	Decommissioning	n/a

CHAPTER SEVEN

CONCLUSION AND RECOMMENDATION

7.2 Conclusion

Based on the findings the implementation of the proposed project will result into more positive impacts when compared to the negative impacts that will adequately mitigated as outlined in the ESMMP of this report. The negative impacts identified are of low magnitude and site specific and will therefore be easily be mitigated in all phases of the project.

7.3 Recommendations

It is the view of the experts that the proposed project be allowed to proceed on approval by NEMA subject to strict implementation of the ESMMP and annual audit. Furthermore the ESMMP should be shared with the selected contractor for implementation of the contractors specific ESMMP. The CPCU thorough the CESSCO in collaboration with relevant stakeholders shall monitor the implementation and report on compliance.

REFERENCES

- Kenya gazette supplement Acts 2000, Environmental Management and Coordination Act Number 8 of 1999. Government printer, Nairobi
- GoK (2002).The Water Act Cap 372, (& Revised regulations- 2016), Government Printer, Nairobi, Kenya.
- GoK (2006).EMCA - Water Quality Regulations, 2006.Government Printer, Nairobi, Kenya.
- Kenya gazette supplement Acts Land Planning Act (Cap. 303) Government printer, Nairobi
- Kenya gazette supplement Acts Penal Code Act (Cap. 63) Government printer, Nairobi
- Kenya gazette supplement Acts Physical Planning Act, 1999 Government printer, Nairobi
- Kenya gazette supplement Acts Public Health Act (Cap. 242) Government printer, Nairobi
- Kenya gazette supplement number 56. Environmental Impact Assessment and Audit Regulations, 2003. Government printer, Nairobi
- GoK (2009) The National population census statistics, Government Printer, Nairobi, Kenya.
- GoK (No.13, 2013)). Agriculture & Fisheries Authority Act, Cap 2013. Government Printer, Nairobi. Kenya.
- GoK (2006).The Conservation of Biological Diversity Regulations 2006.Government Printer, Nairobi, Kenya.
- GoK ; Dairy Act Cap 336, Government Printer, Nairobi, Kenya.
- GoK (2006).EMCA - Waste Management Regulation, 2006.Government Printer, Nairobi, Kenya.
- GoK (2009).EMCA - Noise Prevention and Control Rules 2009.Government Printer, Nairobi, Kenya.
- GoK (2012).The County Government Act. Government Printer, Nairobi, Kenya.
- Labour and Employment Relations Act, Cap 2007; Government Printer, Nairobi, Kenya.

ANNEXES

Annex 1: Duly filled and Signed ESS Screening Checklist

Environmental and Social screening Checklist
ESM Sub-projects Screening Checklist (Prototype)
 (Sub-projects screening process by benefitting communities/Agencies)

Section A: Background information

Name of County Nyeri

Name of CPCU /Researcher
MUKHWEINI

Sub-project location SUB-COUNTY Name of
MUKHWEINI

CBO/Institution.....

Postal Address: 232-10 103 MUKHWEINI

Contact Person 0202046895 Cell phone: 0722814900

Sub-project name MUKHWEINI WITIKULIMA DAIAY CO-OPERATIVE SOCIETY LIMITED

Estimated cost (KShs.) 40,000,000.00

Approximate size of land area available for the sub-project.....

Objectives of the sub project To increase production of processed milk products

.....

Activities/enterprises undertaken Processing milk

How was the sub-project chosen? PO members identified the need, and a grant proposal submitted to KCSAP, vetting recommendations and approval done by project unit - then Nation coordinating unit approved and through

Expected sub project duration: One year

Section B: Environmental Issues minutes

Will the sub-project:	Yes	No
Create a risk of increased soil erosion?		<input checked="" type="checkbox"/>
Create a risk of increased deforestation?		<input checked="" type="checkbox"/>
Create a risk of increasing any other soil degradation soil degradation?		<input checked="" type="checkbox"/>
Affect soil salinity and alkalinity?		<input checked="" type="checkbox"/>
Divert the water resource from its natural course/location?		<input checked="" type="checkbox"/>
Cause pollution of aquatic ecosystems by sedimentation and agro-chemicals, oil spillage, effluents, etc.?		<input checked="" type="checkbox"/>
Introduce exotic plants or animals?		<input checked="" type="checkbox"/>
Involve drainage of wetlands or other permanently flooded areas?		<input checked="" type="checkbox"/>



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

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

Section C: Socio-economic Issues

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

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?		<input checked="" type="checkbox"/>
Adversely affect environmentally sensitive areas or critical habitats – wetlands, woodlots, natural forests, rivers, etc.)?		<input checked="" type="checkbox"/>
Affect the indigenous biodiversity (Flora and fauna)?		<input checked="" type="checkbox"/>

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-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?		✓
Experience effluent and/or emissions discharge?		✓
Export produce? Involve annual inspections of the producers and unannounced inspections?		✓
Require scheduled chemical applications?		✓
Require chemical application even to areas distant away from the focus?		✓
Require chemical application to be done by vulnerable group (pregnant mothers, chemically allergic persons, elderly, etc.)?		✓
Use irrigation system in its implementation?		✓

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

Section E: Pesticides and Agricultural Chemicals

This questionnaire will be used with the farmers groups for purpose of implementing the IPMF

1) Pest Control practices

a) Do you use any pesticides to control pests (Insects, diseases, weeds) of crops each season?

Yes _____ No _____ If yes, Name them:	Name of pesticide	Name of pest, disease, weed controlled	Number of times applied/season	When did you apply (growth stage or month) Quantity purchased

If No, WHY?

b) If you use any of the above pesticide types, do you keep records of the:

Section F: Vulnerable and Marginalized Groups meeting requirements for OP

4.10

	Yes	NO
Are there:		
People who meet requirements for OP 4.10 living within the boundaries of, or near the project?		
Members of these VMGs in the area who could benefit from the project?		
VMGs livelihoods to be affected by the sub project?		

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

Section G: Land Acquisition and Access to Resources

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

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

Section H: Proposed action

(i) Summarize the above:	(ii) Guidance
All the above answers are _No_ There is at least one _Yes_	<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).

(iii) Recommended Course of Action

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: [type here] Name: Phantus Ndung'u

[type here]

Position / Community: [type here] CSSCO KCSAP

Date: [type here] 5/02/2021

Field Appraisal Officer (CDE): [type here]

Signature: / [Signature] NATIONAL ENVIRONMENT MANAGEMENT AUTHORITY
NEMA

COUNTY DIRECTOR OF ENVIRONMENT
NYERI

Date: [type here] 5/2/2021
R. B. [Signature] NYERI
TEL: 061-2032344

Annex 2: Single (Trade) Permit

		<p align="center">COUNTY GOVERNMENT OF NYERI COUNTY GOVERNMENT OF NYERI</p> <p>Website: www.nyeri.go.ke P.O Box: 1112-10100 Nyeri Kenya Email: info@nyeri.co.ke Phone: +254 714 952 473</p>			
Business No: L06/42600		Permit Number: 2020/L06/4260001		Year: 2020	
<p>Grants This</p> <h2 style="margin: 0;">SINGLE BUSINESS PERMIT</h2> <p>To</p>					
Business No. L06/42600		Business Name MUKURWE-INI WAKULIMA DAIRY LTD			
Certificate of Registration/ID No. C 35/2006		PIN Number P051239577T		VAT Number	
<p>To engage in activity / business / profession or occupation of:</p>					
Business Activity Code & Description: 111: Travelling Wholesaler		Detailed Activity Description: *TRAVELLING WHOLESALER* [Travelling Wholesaler]			
<p>Having Paid Business License Fees Of:</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; font-weight: bold; font-size: 1.2em;">KES 24,000.00</div> <p>KES (In words) *** TWENTY FOUR THOUSAND ONLY***</p>					
<p>Business under this license shall be exclusively conducted at the address indicated below:</p>					
Plot No. MOBILE		Physical Location: NYERI TOWN			
Postal Address 232 - 10103 MUKURWE-INI		Telephone 0722814900		Fax & Email: COUNTY GOVERNMENT OF NYERI TOWN SUB-COUNTY	
		Validity Period: 21 Feb 2020		Expiry Date: 31 Dec 2020	
		Issued By: <u><i>COLLINS KOSGEL</i></u>		Signature: <u><i>[Signature]</i></u>	
REF:01952A202002/0001181		Printed by: <i>Kosgel Collins Kiprop</i> For County Treasury		Stamp and Signature 	
Notice: Granting this license does NOT EXEMPT the business identified above from complying with current regulations on Health and Safety as established by the Government of Kenya and the COUNTY GOVERNMENT OF NYERI					

Annex 3: Company Registration Certificate

Ref. C.118292



Department of the
Registrar General
P.O. Box 30031,
Nairobi

Date 20th DECEMBER

Dear Sir/Madam

Re: The Companies Act (CAP 486)

MUKURWEINI WAKULIMA DARY

_____ Limited

I wish to advise that the above company has been changed from (Private to Public),

(~~Public to Private~~) company. Its new registration number is

C. 35/2006


Please quote this number on all company documents, forms / correspondence etc that are filed at or addressed to the registry henceforth.

Yours faithfully,

A handwritten signature in black ink, consisting of a stylized, circular scribble with a vertical line extending downwards from the center.

ASSISTANT REGISTRAR OF COMPANIES

Annex 4: List of the Company' Board of Directors



THE REPUBLIC OF KENYA

BUSINESS REGISTRATION SERVICE
P. O. BOX 30031
NAIROBI
30TH OCTOBER 2020

To
MUKURWEINI WAKULIMA DAIRY LIMITED
P.O. Box 232
10103 - MUKURWEINI

THE COMPANIES ACT, 2015


According to the records relating to the below company held by the Companies Registry as at 30 MARCH 2020

COMPANY	MUKURWEINI WAKULIMA DAIRY LIMITED
COMPANY NUMBER	C.35/2006
NOMINAL SHARE CAPITAL	100,000,000.00
NUMBER AND TYPE OF SHARES (VALUE PER SHARE)	ORDINARY: 1000000 (KES 100.00 EACH)
DATE OF REGISTRATION	2008-08-02
REGISTERED OFFICE	P.O BOX 232, MUKURWEINI TELEPHONE: +2540722814900, EMAIL: INFO@WAKULIMADAIRY.CO.KE COUNTY: , DISTRICT: , LOCALITY: STREET: MUKURWEINI OTHAYA ROAD, BUILDING: I.R.NO 5979
POSTAL ADDRESS	P.O BOX 232 MUKURWEINI
ENCUMBRANCES	

Name of Directors and Shareholders of the above company with their particulars are as follows

NAME	DESCRIPTION	ADDRESS	COUNTRY	SHARES
GEOFFREY WAHOME KARIUKI	DIRECTOR	P.O BOX 232 MUKURWEINI	KENYA	
GICHOHI KARIUKI	DIRECTOR	P.O BOX 232 MUKURWEINI	KENYA	
WILLIAM KARIUKI KARUGU	DIRECTOR	P.O BOX 232 MUKURWEINI	KENYA	
DAVID MUHIKA MUTAHI	DIRECTOR	P.O BOX 232 MUKURWEINI	KENYA	
PETER MWANGI GATHOGO	DIRECTOR	P.O BOX 232 MUKURWEINI	KENYA	
ERASTUS P MATHERI GITUKU	DIRECTOR	P.O BOX 232 MUKURWEINI	KENYA	
ESTHER WANGUI MUTAHI	DIRECTOR	P.O BOX 232 MUKURWEINI	KENYA	
JOYCE MURINGO MAINA	DIRECTOR	P.O BOX 232 MUKURWEINI	KENYA	
DICKSON GATHERU MACHARIA	DIRECTOR	P.O BOX 232 MUKURWEINI	KENYA	
DAVID KARIUKI HUNGURA	DIRECTOR	P.O BOX 232 MUKURWEINI	KENYA	
SOLOMON WARIBU MUTAHI	DIRECTOR	P.O BOX 232 MUKURWEINI	KENYA	
ROBERT GITHUA KAGONDU	DIRECTOR	P.O BOX 232 MUKURWEINI	KENYA	
GODFREY MWANGI NYAGA	DIRECTOR	P.O BOX 232 MUKURWEINI	KENYA	


Yours Faithfully,
REGISTRAR OF COMPANIES



REF NO: OS-XZF3XAX

Annex 5: Land Registration certificate (Title Deed)

FORM 14—(RTA—County Council Lands)
KENYA REVENUE POUNDS
11 10 0102
1040



REPUBLIC OF KENYA
REGISTRATION OF TITLES ACT
(Chapter 281)

GRANT: No. I.R.N. *5979*
ANNUAL RENT: Sh. 9,200/- (REVISABLE)
TERM: 99 years from 1.7.1998

DEPARTMENT OF LANDS
CENTRAL REGISTRY
14 JAN 2002
15:05 hrs
P.O. Box 30629, NAIROBI

S.A.S. 102
J.D.
27/12/2001

KNOW ALL MEN BY THESE PRESENTS that in consideration of the sum of Shillings fourty six thousand (kshs.46,000/-)

by way of Stand Premium paid on or before the execution hereof the COUNTY COUNCIL OF NYERI (hereinafter called "the Council")

A body corporate duly established under the Local Government Regulations Act 1963

hereby GRANTS unto DAVID MUHIKA MUTAHI, GERALD WARUI KARIUKI AND BEATRICE NYAWIRA WANYAGA as The Trustees of WAKULIMA SELF HELP GROUP DAIRY all of MUKURWEINI (Post Office Box Number 232)

(hereinafter called "the Grantees ") ALL that piece of land situate in Mukurweini Township in NYERI

District containing by measurement nought three three four nought (0.3340) of a hectare or thereabouts that is to say Land Reference Number 25676 which said piece of land with the dimensions abuttals and boundaries thereof is delineated on the plan annexed hereto and more particularly on Land Survey Plan Number 238149 deposited in the Survey Records Office at Nairobi To HOLD

for the term of 99 years from the First day of July One thousand nine hundred and ninety eight

SUBJECT to (a) the payment in advance on the first day of January in each year of the annual rent of Shillings nine thousand two hundred (Kshs.9,200/-) (Revisable) w.e.f. 1.7.1998

Annex 7: Effluent Quality Analysis Report



WATER RESOURCES AUTHORITY

EWASO NYIRO NORTH REGIONAL OFFICE
P.O. BOX 1331 - 10400
NANYUKI

Telephone: Nanyuki 062 – 32510
Fax: Nanyuki 062 – 32511
E-mail: wra.ewasongiro@gmail.com

Water Sample Analytical Certificate – Effluent Results

Name of customer: Wakulima Dairy Ltd
Purpose of sampling: Monitoring
Date Sampled: 12th/05/2020
Source: Final Effluent.

Address: P.O. Box Mukurwe-ini
County: NYERI
Date received: 12th/05/2020
Date compiled: 18th/05/2020

PARAMETERS	UNIT	RESULTS	EFFLUENT STANDARDS	
			DISCHARGE INTO ENVIRONMENT	DISCHARGE INTO PUBLIC SEWER
Temperature	°C	23.5	+3 ambient temp.	20-30
pH	pH Scale	8.0	6.5-8.5	6-9
Conductivity	µ S/cm	2630	-	-
BOD ₅ days at 20°C	mgO ₂ /l	1250	30	500
COD	mgO ₂ /l	1560	50	1000
Total Alkalinity	mgCaCO ₃ /l	620	-	-
Total Suspended Solids	mg/l	486	30	250
Total Dissolved Solids	mg/l	1709.5	1200	2000
Colour	mg/l	5		
Turbidity	mg/l	533		
Phosphorous	mg/l	118		
Total Phosphate	mg/l	360	Two guideline value	30
Phosphorous Pentoxide	mg/l	270		
Dissolved Oxygen	mg/l	Nil		
Sulphate	mg/l	116		
Nitrite	mg/l	0.924		
Nitrate	mg/l	4360	Max 50	Max 50
Nitrogen	mg/l	1000		
Ammonia	mg/l	1.9		
Potassium	mg/l	10		
Arsenic	µg/l	0	0.02	0.02
Oil & Grease		10	Nil	5 or 10
Residual Chlorine	mg/L	Nil		

Name of analyst: Vivianne Bosire

Signature: *[Signature]*

Comments by head of laboratory:

The BOD & COD values are higher than the recommended values of 30 and 50 respectively in order to discharge directly into the environment

Name: James M. Icika

[Signature]
REGIONAL MANAGER
EWASO NYIRO NORTH CATCHMENT AREA
P. O. Box 1331 NANYUKI



Signature: *[Signature]* Date: 18th/05/2020

WRA is ISO 9001: 2008 Certified

Annex 8: Evidence of Medical Certification for Staff

FORM D

No. 73219

 **COUNTY GOVERNMENT OF NYERI** 
P.O. BOX 1112-10100 NYERI

CERTIFICATE OF MEDICAL EXAMINATION
THE FOOD, DRUGS AND CHEMICAL SUBSTANCE ACT
(Cap. 254)

I hereby certify that I have this day examined
Mr./Mrs./Miss Mary Njeri and that
in my opinion he/she is fit under the food, Drug and Chemical Substances
(Food Hygiene) Regulations to work at Wakulima Dairy
(Name of Food plant), Plot No. _____
Town/Market Kisumu
This certificate is valid for six months with effect from 8/10/2020
to 8/4/2021
M. K...
SUB-COUNTY PUBLIC HEALTH OFFICER
P.O. BOX 83 MUKURWE-INT

Ksh 500/-
Receipt _____

Date 8/10/2020

(Official stamp of Medical Institution)

Annex 9: Evidence of NSSF & NHIF Certification for Staff

P. O. Box 30599 - 00100 GPO
Tel: 2729911, 2710552 - NAIROBI


NSSF
Growing You. For Good.

SERIAL No. **0860731**

RECEIPT PAYMENT RECEIPT

Receipt No: **40101 / 2020 / 11818** Print Date: 18/11/2020 09:33:49

Account Number: 00845433

Received From: **MUKURWE-INI WAKULIMA DAIRY COMPANY LIMITED** Receipt Date: 18-NOV-20

Payment mode: BANK CHEQUE
Document Number: 004715 Date: 11/11/2020

Payment Type	Period	Amount
Pension Fund - Tier 1	10/2020	158,000.00
Provident Fund	10/2020	400.00
Paid amount Kesah		158,200.00

One Hundred Fifty Eight Thousand Two Hundred Kes only

Remark:

Served by: _____ Signature _____

This receipt is not valid without the Issuer's Official Stamp

SF/FIN/INC/DF/001

SF/FIN/INC/DF/002

NATIONAL SOCIAL SECURITY FUND
P.O. Box 30599 - 10115 - NAIROBI
18 NOV 2020
RECEIVED
TEL: 061 2632105 - 0777 - 404 455

NATIONAL SOCIAL SECURITY FUND
P.O. Box 30599 - 10115 - NAIROBI
18 NOV 2020
RECEIVED
TEL: 061 2632105 - 0777 - 404 455

Annex 10: KEBS Permit for Standardization Mark

PERMIT TO USE THE STANDARDIZATION MARK
THE STANDARDS ACT (CAP. 496 OF THE LAWS OF KENYA)

PERMIT IS GRANTED TO:

NAME OF FIRM: <u>MUKURWE-INI WAKULIMA DAIRY</u>	STANDARDIZATION MARK NO.: <u>24637</u>
POSTAL ADDRESS: <u>P.O BOX 232, MUKURWE-INI</u> <u>10103</u>	EFFECTIVE FROM: <u>2020-02-28</u>
PHYSICAL ADDRESS: <u>MUKURWE-INI OTHAYA ROAD</u>	EXPIRES ON: <u>2021-02-28</u>
TELEPHONE NO.: <u>020-2046895</u>	DATE OF ISSUE: <u>2020-08-19</u>
FAX NO.: <u>020-2046895</u>	
E-MAIL ADDRESS: <u>-</u>	

to use the standardization mark specified in the first row hereunder upon and in respect of the commodity and brand specified in the second and third rows there of, which commodity conform to the standard specification in the fourth row.

1. STANDARDIZATION MARK	 
2. DESCRIPTION OF THE COMMODITY UPON WHICH THE STANDARDIZATION MARK IS TO BE USED	YOGHURT
3. BRAND NAME	ROYAL
4. STANDARD SPECIFICATION (Number and Title)	KS EAS 33 :2019 EAST AFRICAN STANDARD SPECIFICATION FOR YOGHURT.


 MANAGING DIRECTOR / AUTHORIZED OFFICER
KENYA BUREAU OF STANDARDS

NOTE: 1. EVERY PERMIT HOLDER SHALL PAY AN ANNUAL FEE IN RESPECT OF EACH PERMIT GRANTED OR RENEWED
2. THIS PERMIT IS ISSUED SUBJECT TO THE CONDITIONS SET OUT OVER LEAF




Kenya Bureau of Standards

THE STANDARDS ACT (CAP. 496 OF THE LAWS OF KENYA)

PERMIT IS GRANTED TO :

NAME OF FIRM: — MUKURWE-INI WAKULIMA DAIRY —

STANDARDIZATION MARK NO. : 22404

POSTAL ADDRESS: P.O BOX 232, MUKURWE-INI
10103

EFFECTIVE FROM: 2015-07-22

PHYSICAL ADDRESS: MUKURWE-INI OTHAYA ROAD

EXPIRES ON.: 2016-07-21

TELEPHONE NO. : 020-2046895

DATE OF ISSUE: 2015-07-22

FAX NO. : 020-2046895

E-MAIL ADDRESS : -

to use the standardization mark specified in the first row hereunder upon and in respect of the commodity and brand specified in the second and third rows there of, which commodity, conform to the standard specification in the fourth row

1 STANDARDIZATION MARK



2 DESCRIPTION OF THE COMMODITY UPON WHICH THE STANDARDIZATION MARK IS TO BE USED

DAIRY MEAL

3 BRAND NAME


BORA

4 STANDARD SPECIFICATION (Number and Title)

KS 01-62 Kenya Standard Specification for dairy cattle feed supplements (Second Edition).

NOTE: 1. EVERY PERMIT HOLDER SHALL PAY AN ANNUAL FEE IN RESPECT OF EACH PERMIT GRANTED OR RENEWED

2. THIS PERMIT IS ISSUED SUBJECT TO THE CONDITIONS SET OUT OVER LEAF


MANAGING DIRECTOR / AUTHORIZED OFFICER

KENYA BUREAU OF STANDARDS



Kenya Bureau of Standards

Annex 11: Fire Safety Audit Report

2020
FIRE SAFETY AUDIT REPORT
UPON
WAKULIMA DAIRY LIMITED



The Audit process and report comply with Legal Notice No. 59/2007
The Occupational Safety & Health Act (2007)

The Audit was carried out by:
Mumbi Kariuki - Authorised Fire Safety Auditor
OSH/FSA 113

Date: 12TH August 2020

Annex 12: Noise Survey Report

NOISE SURVEY REPORT 2020

FOR

MUKURWE-INI WAKULIMA DAIRY Ltd.

P.O BOX 232-1013, MUKURWE-INI

PLOT ON LR 25676



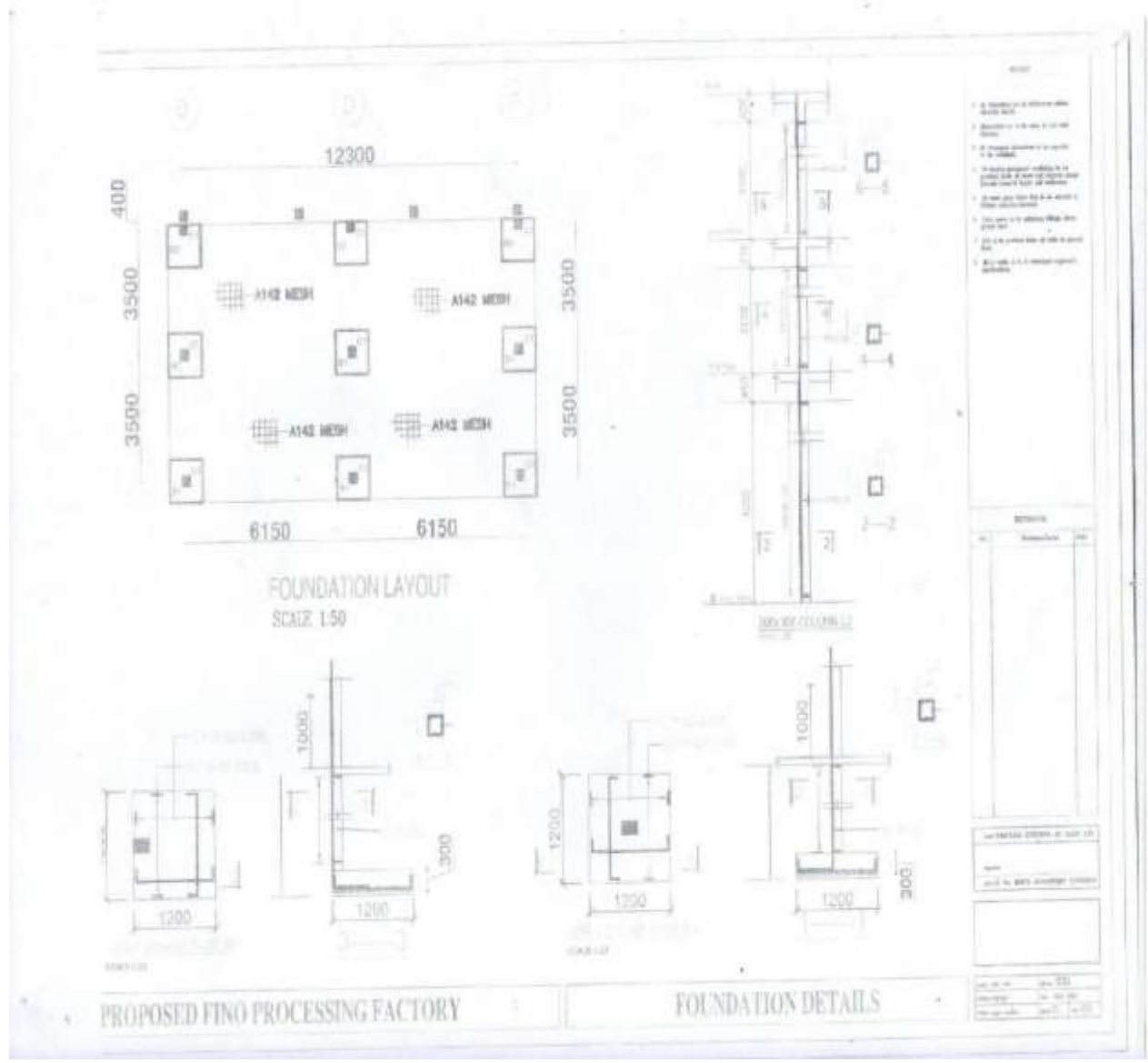
By

Mumbi Kariuki

OSH/ADV140

August 2020

Annex 13: Designs and Building Plan



PROPOSED FIMO PROCESSING FACTORY

FOUNDATION DETAILS

Annex 14: Equipment Inspection Report

MUKURWE-INI WAKULIMA DAIRY LTD

P.O. BOX 232-10103 MUKURWE-INI

INSPECTION REPORT

FOR

**HORIZONTAL WOODFIRED BOILER ,AIR RECEIVERS
AND MANUAL LIFTING MACHINES**

DATED 23RD / 08 / 2020

INSPECTED BY:

INDUSTRIAL VESSELS INSPECTORS LIMITED

P.O BOX 80072-00400

NAIROBI.

TEL: 0729733543

Email:chimbaboiler@gmail.com

Annex 15: Certificate of Inspection for Equipment

214

**THE FACTORIES ACT,
(CAP. 514, SECTION 37)**
Form prescribed by the minister for labour for
REPORT OF EXAMINATION OF STEAM BOILER UNDER NORMAL STEAM PRESSURE.


This form may also be used (so far applicable) for supplementary reports of economizer and superheated

1. Name of occupier	MUKURWE-INI WAKULIMA DAIRY LIMITED.
2. Address of factory or other premises where boiler is Situated. In case of factory, state also Registration No	P.O BOX 232-10103 MUKURWE-INI MUKURWE-INI TOWN
3. Type, description and distinctive number of boiler	HORIZONTAL WOODFIRED BOILER. SN: FVPL-1787 CAPACITY 600KG/HR
4. Condition (External)	GOOD AND WORKING
5. Fittings and attachments-	
a) (i) Is the safety valve so adjusted as to prevent the boiler being worked at a pressure greater than The maximum permissible working pressure Specified in the last report(L.D 211 on the Examination when cold?	YES TWO SPRING TYPES SET TO BLOW 10.5 BARS.
(ii) If a lever safety valve, is the weight secured on the Lever in the correct position?	TWIN SPRING LOADED.
b) Is the pressure gauge working correctly?	YES
c) Is the water gauge in proper working order?	YES AS PER THE ACT
6. Repairs (if any) required, and period within which they Should be executed, and any other conditions which the the authorized boiler inspector thinks if necessary to specify for securing safe working.	
7. Other observations	ALL CONTROLS OK. CERTIFIED UPTO AUGUST 2021

I, (Full name in BLOCK LETTERS **PETER CHIMBA NDIRITU** hereby declares that I am a boiler inspector authorized by the Chief Inspector of factories for the purpose of section 37 of the Factories Act, Cap. 514, by Certificate **APV/077** .../dated on ... **22ND / JULY / 2020**.... and that on **23RD / 08/2020**. I examined the steam boiler above described under normal steam pressure.

I certified that the above is a true report of the result.

Date: : 23RD / 08 / 2020
Address : P.O BOX 61722-00200
TEL : 0723 646 571


Signature of Authorized Boiler Inspector

TO BE ATTACHED TO THE GENERAL REGISTER.

Annex 16: Minutes of Public Participation

MINUTES FOR MUKURWEINI WAKULIMA DAIRY COOPERATIVE SOCIETY

MEETING HELD ON 09/01/2021 AT MUHITO PCEA CHURCH HALL

Present –M.W.D.C.S LTD

Hon. Muhika Mutahi – Chairman

Mr. Erastus Matheri - Committee member

Mrs. Esther Mutahi- Committee member

Mr. Solomon Mutahi – Committee Member

Mr. William kariuki – Committee Member

Mr. Geoffrey Wahome- Committee Member

Mr. Robert Githua – Committee Member

Mr. David Hungura - Committee Member

Mr. Julius Gichohi – Committee Member

Mrs. Julius Gichohi – Committee Member

Mr. Peter Gathogo – Committee Member

Mr. Peter Kamau – C.E.O (DAIRY)

Mr. John Mwaura – C.E.O (SACCO)

Mr. George Muita – Operations Manager

Mr. Charles Mithamo – Milk Procurement, Production

The chairman called the meeting into order and requested a volunteer to lead with a word of prayer where Mrs Mary Wanjiru led the prayers at 10.55 am.

The chairman welcomed the members for availing themselves for the meeting and thanked them their endless support to their society even during this trying times of corona virus era and later called the secretary to read the day's agendas .

1. Reading the previous minutes
2. Adapting the minutes and adopting.
3. Matters arising from the previous meeting.
- 4 .Progress of KCSAP -inclusion grant funds utilization.
5. Fino terra packing plant.
5. A.O.B

MIN1/09/01/2021 READING THE MINUTES FROM THE PREVIOUS MEETING

The secretary read through the minutes from the previous meeting and the members unanimously agreed that they were true as read. Proposed by Mr. Peter Nderitu and seconded by Mr. Francis Kariuki.

MIN 2/01/09/2021-MATTERS ARISING FROM THE PREVIOUS MEETING

Cancellation of member trainings on FODDER CONSERVATION, BREED SELECTION and AI service after having been given much publicity at the zonal levels. -The chairman informed the members that the cancellation was as a result of the Ministry of health directive to strictly observe covid -19 guidelines at the time, but assured the members that once the government eases the directives the trainings will be rescheduled.

MIN3/09/01/2021-PROGRESS ON KCSAP INCLUSION GRANT FUND.

The chairman informed the members that Kenya Climate Smart Agriculture Project is a world bank funded project and aims to increase agriculture productivity to farmers in the county project area. They have already disbursed Ksh 1 million to the society for capacity building. The management committee on various management aspects ranging from governance, fiduciary, recruitment of more members among others. Training of various sub committees will also be carried out for better running of the society up to the zonal member representatives. He also informed the members that the funds are grants to the beneficiaries (society) and is a prerequisite to a bigger grant that the society intend to receive from KCSAP to install a fino tetra pack machine (UHT) for long Shelf life packaging.

MIN 4/09/01/2021-FINO TETRA PACK PLANT

The chairman informed the members that the Fino tetra pack plant is budgeted to cost Ksh 40 Million where KCSAP will provide Ksh 20 million as grant and the society provide a similar amount of Ksh 20 million. The chairman informed the members that housing structure where the processing plant will be installed is almost complete and he hopes that the processing will start soon since they are continuously with KCSAP for directions and guidance.

MIN 5/09/01/2021-A.O.B

One member wanted to know whether the individual member saving account banking section can be operated through mobile banking since covid 19 preference rate is rising in the county (for personal safety).

Another member wanted to know why there was a change of milk collection time in his zone as they are wasting so much time waiting for the vehicle to arrive .

The chairman requested members to adhere covid -19 guidelines as issued by the ministry of health –keeping distance about 1.5 m, washing hands with the recommended sanitizer and always wearing of mask when at public place .He emphasized that it was a personal /individual responsibility to protect themselves in order to avoid being counted as a statistics.

Having no other business the meeting ended at 3.35 pm with a word of prayers from Mr John Maina .

Minutes proposed by

Name _____ I/D No. _____ Date _____ Signature _____

Minutes seconded by

Name _____ I/D No. _____ Date _____ Signature _____

MINUTES FOR MUKURWEINI WAKULIMA DAIRY COOPERATIVE SOCIETY
MEETING HELD ON 27/02/2021 AT GIATHUGU POLYTECHNIC

PRESENT

Mr. Erastus Matheri - Committee member
Mrs. Esther Mutahi- Committee member
Mr. Solomon Mutahi – Committee Member
Mr. William kariuki – Committee Member
Mr. Geoffrey Wahome- Committee Member
Mr. Robert Githua – Committee Member
Mr. David Hungura - Committee Member
Mr. Julius Gichohi – Committee Member
Mrs. Julius Gichohi – Committee Member
Mr. Peter Gathogo – Committee Member
Mr. George Muita – Operations Manager
Mr. Charles Mithamo – Milk Procurement, Production

The chairman (George Muita- Acting Chairman) called the meeting into order and requested a volunteer to lead with a word of prayer where Mrs Jechinta Waigumo led the prayers at 11.15 am.

The chairman welcomed the members for availing themselves for the meeting and thanked them for having time to come support to their dairy cooperative society and later called the secretary to read the day's agendas.

1. Reading the previous minutes
2. Matters arising from the previous meeting.
- 3 .Training of Data enumerators by KCSAP Team.
- 4 Update on Fino terra packing plant.
5. A.O.B

MIN1/27/02/2021 READING THE MINUTES FROM THE PREVIOUS MEETING

The secretary read through the minutes from the previous meeting and the members unanimously agreed that they were true as read .Proposed by Mr. Charles Kinyuua and seconded by Mrs Elizabeth Wangui

MIN 2/02/27/2021-MATTERS ARISING FROM THE PREVIOUS MEETING

Delays in milk collection in the morning sessions –The members were informed that the said milk collection delays were due to strict government curfew hours that must be adhered to ,but the society looking on how the problem can be addressed eg engaging more collecting vehicles or complete rescheduling of milk the collection time table ,The chairman apologized for any inconvenience caused by the new time table .

MIN3/27/02/2021-PROGRESS ON KCSAP INCLUSION GRANT FUND.

The chairman informed the members that Kenya Climate Smart Agriculture Project is a world bank funded project and aims to increase agriculture productivity to farmers in the county project area have already disbursed Ksh 1 million to the society for capacity building the management committee on various management aspects ranging from governance, fiduciary, recruitment of more members among others .Training of various sub committees will also be carried out to for better running of the society up to the zonal member representatives .He also informed the members that the funds are grants to the beneficiaries (society) and is a prerequisite to a bigger grant that the society intend to receive from KCSAP to install a fino tetra pack machine(UHT) for long Shelf life packaging. Also the chairman informed the members that KCSAP is about to recruit data enumerators in all the society jurisdiction and their role will be to collect baseline data for all society beneficiaries either from funded and none CIGs all affiliated to Mukurweini Wakulima Cooperative Society .The data enumerators must have a smart phone as the exercise will be digital. The data collection exercise will commence soon.

MIN 4/27/02/2021-FINO TETRA PACK PLANT

The chairman informed the members that the Fino tetra pack plant is budgeted to cost Ksh 40 Million where KCSAP will provide Ksh 20 million as grant and the society provide a similar amount of Ksh 20 million. The chairman informed the members that housing structure where the processing plant will be installed is almost complete and he hopes that the processing will start soon since they are continuously with KCSAP for directions and guidance. The chairman hailed KCSAP project for the grant and said that the end result of the activity will result to higher pay for each liter of milk delivered to the society due to increase market of the processed milk thus increased income for the dairy farmer.

MIN 5/27/02/2021-A.O.B

One member wanted to know whether anybody with a smart phone will be recruited to collect the said data and when the recruitment exercise will comence and the mode of payment .

The chairman requested members to adhere covid -19 guidelines as issues by the ministry of health –keeping distance about 1.5 m, washing hands with the recommended sanitizer and always wearing of mask when at public place .He emphasized that it was a personal /individual responsibility to protect themselves in order to avoid being counted as a statistics.

Having no other business the meeting ended at 4.25 pm with a word of prayers from Mr Joram Kirubi

Minutes proposed by

Name _____ I/D No. _____ Date _____ Signature _____

Minutes seconded by

Name _____ I/D No. _____ Date _____ Signature _____

Annex 17: List of Attendance during public participation meetings

ATTENDANCE LIST FOR MUKURWE-INI WAKULIMA			
DAIRY COOPERATIVE SOCIETY MEETING HELD			
ON 09/01/2021 AT MUKITO PLEA HALL			
1	ELSAH	MUGO	07204122429
2	LOBAW	WAMUKI	0723513039
3	Samuel	Gathya	0710329327
4	Villemorah	Wangui	0791332600
5	STEDDAH	nyupathi	0720546043
6	Elizabeth	mutoni	0725702838
7	Peter	ndiriki	0726255801
8	AMOS	ndungu	0710528702
9	FRANCIS	irungu	0720 0706883878
10	Reginah	Wanjuki	0788007525
11	FRANCIS	Kamika	0791764896
12	Wilson	Uchiru	0723142370
13	CHARLES	ugunyi	0718495305
14	MARY	Wangui	0715844408
15	Paul	Uroja	0712649623
16	Patricks	ndungu	0728321374
17	Patrick	mutoni	072600655
18	MARY	Wangui	0727265984
19	John	Muna	0726061857
20	AESTUS	WETHINA	0707037758
21	MARY	Kariuki	0713325467
22	AMM	WAMUKI	0724590475
23	Samsa	MWANGI	07203247912
24	CHARLES	Kinyari	0724679403
25	Ibrahim	Thirui	0743751123
26	NEV	MUKWARA	0720456748
27	AMM	MUTHONI	0792547187
28	Maryat	Wanjuki	0710399608
29	TENESAH	nyumbura	0725381423
30	Patrick	ndungu	0723974972
31	TENESAH	Wairimu	0727386855

Activity: EPP AT WAKULIMA DAIRY LTD

Venue: GRACHIRO

Date: 15/1/2021

S/N	Name	Id	Tel	Sign
1	Charles Njui Chege	30325212	0715386578	
2	Michael Matui	133 22 111	0725592522	
3	CHARLES MICHARA	28490833	071710972	
4	JOSEPH KINGORI	12778714	0723035707	Kingori
5	LINDA KIKKIE KENNETH	34585843	0724914563	
6	JULIUS MBOITHA	30224312	0704608574	
7	CHARLES WAMUI	371997	0741062012	
8	REBECCA NDEMBO	25362379	0725429857	
9	ALTONELIS GITUI	33212717	0708498679	
10	HILDA WAMBUI MACHARIA	35529169	0740220867	
11	FRANCIS KIMANI NDIKANGI	21000747	0718200506	
12	MARGARET MUTHANI	22602486	0718054282	
13	DANIEL GICHANGA	33142919	0727629103	
14	Leah Mareng	33336387	0706574716	
15	TERESA WAMBUI	33378254	0706603538	

ATTENDANCE LIST FOR MUKURWEINI WAKULIMA
DAIRY COOPERATIVE SOCIETY MEETING HEID
ON 27/02/2021 AT GIATHUGU, POLYTECHNIC

	Thola Pina:	ID	CONTACT	SIGN
1	KIHATO GICHIMU	1275143	0703530482	<i>[Signature]</i>
2	JORAM KIRURI	2432970	0723932370	<i>[Signature]</i>
3	JOHN GATERI	13539229	0710290108	<i>[Signature]</i>
4	DOUGLAS MAINA	0086168	0723574746	<i>[Signature]</i>
5	ELIZABETH NJERI	10316920	0700317455	<i>[Signature]</i>
6	JOSEPH GATHIOMI	1123986	0712597174	<i>[Signature]</i>
7	JULIA WANJIKU W.	16042914	0719409645	PHOLOGY
8	CHARLES KINYUA	2432345	0724176702	<i>[Signature]</i>
9	DAMARIS WAMUYU	2433485	0726777138	Damaris Wamuyu
10	SAMUEL GACHIBE	31012520	0796504448	<i>[Signature]</i>
11	CLEMENT KANYI	077442	072587899	<i>[Signature]</i>
12	LAULA NJERI	7995170	0717895303	APPOLOGY
13	JECINTA WAIGUMO	2433380	0715611759	<i>[Signature]</i>
14	STANELY NGUMBU	09553849	079893005	<i>[Signature]</i>
15	GICHUKI MURIGU	0722916147	0722916147	APPOLOGY
16	ELIZABETH WANGUI	955-3616	0712468763	<i>[Signature]</i>
17	PETER KANYORA	2432075	0718203826	<i>[Signature]</i>
18	DOMINIC KAGIRI	1815623	0795107034	<i>[Signature]</i>
19	JOSEPHAINYAGA R.	9856658	0721888536	<i>[Signature]</i>
20	GACHANJA IRUNGU	21774083	0781303814	ABSENT
21	FRANCIS NGARI	13100503	0724759461	APPOLOGY
22	PETER GATERI M.	26924466	0706143713	peris
23	PETER MUTURI N.	269 ¹⁴⁵²¹⁷⁰	0702395258	<i>[Signature]</i>
24	GRACE WAHITO	20021432	0712908707	<i>[Signature]</i>
25	JOSHUA WAWERU			APPOLOGY
26	JOSEPH MUTURI K.	88112150	0720228649	<i>[Signature]</i>
27	ROBERT WAMUKU G.	2432801	0702615091 0702615091	<i>[Signature]</i>
28	STEPHEN GICHUKI M.	2432271	07299016955	<i>[Signature]</i>
29	PATRIC MBURU ITUNE	13100675	0725656599	APPOLOGY
30	DAVID WANJOHI ITUNE	3413735	0727719425	APPOLOGY

Annex 18: CPP respondent Filled questionnaires

ANNEXES

Annex 1. Community Participation Blank Questionnaires

PROPOSED TETRA PACK FINO EXTENSION AT MUKURWEINI WAKULIMA DAIRY LTD

Pursuant to the provisions of the Environmental Management and Coordination Act Cap 387, Environmental Impacts Assessment (EIA) and Audit (EA) Regulations 2003, Public Health Act and Legal Supplement 2003, a social site assessment for ESIA is being conducted on the Proposed Site.

RESPONDENT

Name DANIEL GICHAMGA
County NIERI
Sub-County MUKURWEINI CENTRAL
Ward ISHAMBARA
Mobile Number 0727629503

(Please note that these details are required for the purposes of authenticity in relation to the proposed project)

1. Are you a resident of this area? Yes Or NO
2. Are you aware of the proposed Milk value addition extension project by Mukurweini Wakulima Dairy cooperative in Mukurweini town, in Mukurweini Central Ward.
3. Do you support the proposed project in the area? Yes NO
4. Do you think this project is suitable and compatible with the surrounding developments? Yes NO

5. Within this area, are there similar projects
 Yes NO

6. What are some of the positive impacts you can attach to this project

✓ There will be more Job creation
✓ Increase in milk production to satisfy the
milk consumption

7. What are some of the negative impacts you can attach to this project

✓ It will cause pollution in terms of waste disposal, noise to the neighbours, air pollution

6. Are there any sensitive ecosystems within the area (e.g. swamps, water body, forest, etc.)?

Yes	No <input checked="" type="checkbox"/>
-----	--

If yes please specify

7. Do you think the proposed project will have any impacts on the following if implemented?

- Water/Energy Supply
..... no
- Roads/Traffic/Transport
..... no
- Security/conflicts/grievances
..... no
- Vegetation/crops
..... nil
- People/animals/livestock
..... yes - because the cattle dip is where are assembled during disease control
- Market/Housing/Physical infrastructures
..... no
- Others (please Specify)
.....
.....
.....

8. What are some of the challenges that you experience in this area (please tick)

- Garbage collection
- Insecurity
- Noise
- Traffic
- Any other

9. Which are some of the infrastructural facilities that you would like to see developed in the area

more processing plant and industries

10. Any other comments/Suggestions you would like to make in relation to this proposed project

The project should be of help to the society and the surrounding community first

Signature



Date

12/07/2021

THANKYOU FOR YOUR RESPONSE

ANNEXLS

Annex 1. Community Participation Blank Questionnaires

PROPOSED TETRA PACK FINO EXTENSION AT MUKURWEINI WAKULIMA DAIRY LTD

Pursuant to the provisions of the Environmental Management and Coordination Act Cap 387, Environmental Impacts Assessment (EIA) and Audit (EA) Regulations 2003, Public Health Act and Legal Supplement 2003, a social site assessment for ESIA is being conducted on the Proposed Site.

RESPONDENT

Name Klanjau Ephraim
County Nyeri
Sub-County MUK
Ward Central
Mobile Number 0712660015

(Please note that these details are required for the purposes of authenticity in relation to the proposed project)

1. Are you a resident of this area? Yes Or NO
2. Are you aware of the proposed Milk value addition extension project by Mukurweini Wakulima Dairy cooperative in Mukurweini town, in Mukurweini Central Ward. Yes
3. Do you support the proposed project in the area? Yes NO
4. Do you think this project is suitable and compatible with the surrounding developments Yes NO
5. Within this area, are there similar projects Yes NO
6. What are some of the positive impacts you can attach to this project
Creation of employment for the youth
Attraction of investment & development
Development
Mapping of the area in world map
7. What are some of the negative impacts you can attach to this project
Waste management

6. Are there any sensitive ecosystems within the area (e.g. swamps, water body, forest, etc.)?

YES NO

If yes please specify

7. Do you think the proposed project will have any impacts on the following if implemented?

- Water/Energy Supply
.....
..... No
- Roads/Traffic/Transport
.....
..... No
- Security/conflicts/grievances
.....
..... No
- Vegetation/crops
.....
..... No
- People/animals/livestock
.....
..... Yes ->
- Market/Housing/Physical infrastructures
.....
..... No
- Others (please Specify)
.....
.....
.....

8. What are some of the challenges that you experience in this area (please tick)

- Garbage collection
- Insecurity
- Noise
- Traffic
- Any other

9. Which are some of the infrastructural facilities that you would like to see developed in the area

• More related processing industries.

10. Any other comments/Suggestions you would like to make in relation to this proposed project

The project should benefit the surrounding community first.

Signature Leate Date 15/1/2021

THANKYOU FOR YOUR RESPONSE

ANNEXES

Annex 1. Community Participation Blank Questionnaires

PROPOSED TETRA PACK FINO EXTENSION AT MUKURWEINI WAKULIMA DAIRY LTD

Pursuant to the provisions of the Environmental Management and Coordination Act Cap 387, Environmental Impacts Assessment (EIA) and Audit (EA) Regulations 2003, Public Health Act and Legal Supplement 2003, a social site assessment for ESIA is being conducted on the Proposed Site.

RESPONDENT

Name Leah Marenge
County Nyeri
Sub-County Mukurweini
Ward Central
Mobile Number 0706574786

(Please note that these details are required for the purposes of authenticity in relation to the proposed project)

1. Are you a resident of this area? Yes Or NO
2. Are you aware of the proposed Milk value addition extension project by Mukurweini Wakulima Dairy cooperative in Mukurweini town, in Mukurweini Central Ward.
3. Do you support the proposed project in the area? Yes NO
4. Do you think this project is suitable and compatible with the surrounding developments Yes NO
5. Within this area, are there similar projects Yes NO
6. What are some of the positive impacts you can attach to this project

The project impacts employment opportunities to the community.

7. What are some of the negative impacts you can attach to this project

sewage maintenance

6. Are there any sensitive ecosystems within the area (e.g. swamps, water body, forest, etc.)?

Yes No

If yes please specify

7. Do you think the proposed project will have any impacts on the following if implemented?

- Water/Energy Supply

Yes - positive impact - Regular energy supply

- Roads/Traffic/Transport

Yes - Water - Negative - runoff water from Corobu

Yes - more traffic on local road - more obstruction on local road

- Security/conflicts/grievances

Enhanced security from 24/7 operations - positive

- Vegetation/crops

No

- People/animals/livestock

No

- Market/Housing/Physical infrastructures

Yes - Improvement of housing amenities in the local town

- Others (please Specify)

8. What are some of the challenges that you experience in this area (please tick)

- Garbage collection
- Insecurity
- Noise
- Traffic
- Any other

9. Which are some of the infrastructural facilities that you would like to see developed in the area

Road - A tarmac road, or caters paved road
to cut on dust & noise

10. Any other comments/Suggestions you would like to make in relation to this proposed project

I support the project as it will do well
for them & the community

Signature

[Handwritten Signature]

Date

15th January 2020

THANKYOU FOR YOUR RESPONSE

ANNEXES

Annex 1. Community Participation Blank Questionnaires

PROPOSED TETRA PACK FINO EXTENSION AT MUKURWEINI WAKULIMA DAIRY LTD

Pursuant to the provisions of the Environmental Management and Coordination Act Cap 387, Environmental Impacts Assessment (EIA) and Audit (EA) Regulations 2003, Public Health Act and Legal Supplement 2003, a social site assessment for ESIA is being conducted on the Proposed Site.

RESPONDENT

Name Charles Chye
County Miyaji
Sub-County Mukurweini
Ward Central
Mobile Number ~~0706~~ 0715386848

(Please note that these details are required for the purposes of authenticity in relation to the proposed project)

1. Are you a resident of this area? Yes Or NO
2. Are you aware of the proposed Milk value addition extension project by Mukurweini Wakulima Dairy cooperative in Mukurweini town, in Mukurweini Central Ward. No.
3. Do you support the proposed project in the area? Yes NO
4. Do you think this project is suitable and compatible with the surrounding developments Yes NO

5. Within this area, are there similar projects Yes NO

6. What are some of the positive impacts you can attach to this project

1) Simply more opportunities leading to better standards of living
2) Security is enhanced

7. What are some of the negative impacts you can attach to this project

- Poor traffic management & fees

6. Are there any sensitive ecosystems within the area (e.g. swamps, water body, forest, etc.)?

Yes No

If yes please specify Not Applicable

7. Do you think the proposed project will have any impacts on the following if implemented?

- Water/Energy Supply will increase bill and utilities
- Roads/Traffic/Transport Traffic because vehicles and motorcycles
- Security/conflicts/grievances None
- Vegetation/crops None
- People/animals/livestock It will stimulate skin protection
- Market/Housing/Physical infrastructures Increase assets because of Mexico and exp. equipment
- Others (please Specify) None

8. What are some of the challenges that you experience in this area (please tick)

- Garbage collection
- Insecurity
- Noise
- Traffic
- Any other

low prices of milk especially during goats seasons.

9. Which are some of the infrastructural facilities that you would like to see developed in the area

Value of excess milk e.g. into powder or UHT.

10. Any other comments/Suggestions you would like to make in relation to this proposed project

Need for establishment factories and industries to employ the youth.

Signature: *Mwai*

Date: 15/1/2021

THANKYOU FOR YOUR RESPONSE

ANNEXES

Annex I. Community Participation Blank Questionnaires

PROPOSED TETRA PACK FINO EXTENSION AT MUKURWEINI WAKULIMA DAIRY LTD

Pursuant to the provisions of the Environmental Management and Coordination Act Cap 387, Environmental Impacts Assessment (EIA) and Audit (EA) Regulations 2003, Public Health Act and Legal Supplement 2003, a social site assessment for ESIA is being conducted on the Proposed Site.

RESPONDENT

Name Margaret Muthoni
County Nyeri
Sub-County Mukurweini
Ward Mukurweini
Mobile Number _____

(Please note that these details are required for the purposes of authenticity in relation to the proposed project)

1. Are you a resident of this area? Yes Or NO
2. Are you aware of the proposed Milk value addition extension project by Mukurweini Wakulima Dairy cooperative in Mukurweini town, in Mukurweini Central Ward.
3. Do you support the proposed project in the area? Yes NO
4. Do you think this project is suitable and compatible with the surrounding developments Yes NO
5. Within this area, are there similar projects Yes NO
6. What are some of the positive impacts you can attach to this project

Solid waste e.g. packaging of tetrapacks
increased demand for water and utilities

7. What are some of the negative impacts you can attach to this project

Technical capacity building through training & experience.
Improve food security

6. Are there any sensitive ecosystems within the area (e.g. swamps, water body, forest, etc.)?

Yes	<input checked="" type="checkbox"/> NO
-----	--

If yes please specify N/A

7. Do you think the proposed project will have any impacts on the following if implemented?

- Water/Energy Supply
..... N/A
- Roads/Traffic/Transport
..... N/A
- Security/conflicts/grievances
..... N/A
- Vegetation/crops
..... N/A
- People/animals/livestock
..... N/A
- Market/Housing/Physical infrastructures
..... Development of the towns near:
- Others (please Specify)
..... Vehicle hooling that leads to sound pollution

8. What are some of the challenges that you experience in this area (please tick)

- Garbage collection
- Insecurity
- Noise
- Traffic
- Any other

9. Which are some of the infrastructural facilities that you would like to see developed in the area

..... Establishment of cheese factory

10. Any other comments/Suggestions you would like to make in relation to this proposed project

..... None. The project is important for the development of the area,

..... creation of job opportunities

Signature TDX Date 15/01/2021

THANKYOU FOR YOUR RESPONSE

ANNEXES

Annex 1. Community Participation Blank Questionnaires

PROPOSED TETRA PACK FINO EXTENSION AT MUKURWEINI WAKULIMA DAIRY LTD

Pursuant to the provisions of the Environmental Management and Coordination Act Cap 387, Environmental Impacts Assessment (EIA) and Audit (EA) Regulations 2003, Public Health Act and Legal Supplement 2003, a social site assessment for ESIA is being conducted on the Proposed Site.

RESPONDENT

Name TERESA WAMBUI

County NYERI

Sub-County MUKURWEINI

Ward CENTRAL

Mobile Number 0706603538

(Please note that these details are required for the purposes of authenticity in relation to the proposed project)

1. Are you a resident of this area? Yes Or NO

2. Are you aware of the proposed Milk value addition extension project by Mukurweini Wakulima Dairy cooperative in Mukurweini town, in Mukurweini Central Ward. Yes

3. Do you support the proposed project in the area? Yes NO

4. Do you think this project is suitable and compatible with the surrounding developments Yes NO

5. Within this area, are there similar projects Yes NO

6. What are some of the positive impacts you can attach to this project

..... Creation of employment among residents.....
..... Development for wealth creation.....
.....

7. What are some of the negative impacts you can attach to this project

..... hearing sound pollution from roads of transport.....
.....
.....

6. Are there any sensitive ecosystems within the area (e.g. swamps, water body, forest, etc.)?

Yes No

If yes please specify

7. Do you think the proposed project will have any impacts on the following if implemented?

- Water/Energy Supply

It will positively and negatively affect the water supply and energy supply

- Roads/Traffic/Transport

If the project succeeds there will be more better roads as the company will require to fix the inner roads so as to fetch milk

- Security/conflicts/grievances

The security will be improved as the processing plant will beef up security so as to protect the plant and the surrounding

- Vegetation/crops

They will affect the vegetation in that they will cut down trees as to clear up space to erect the processing plant

- People/animals/livestock

People and animals will be affected by the noise produced by the processing plant. As people will also benefit in terms of jobs and money (income from selling milk)

- Market/Housing/Physical infrastructures

N/A

- Others (please Specify)

N/A

8. What are some of the challenges that you experience in this area (please tick)

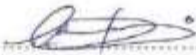
- Garbage collection
- Insecurity
- Noise
- Traffic
- Any other

9. Which are some of the infrastructural facilities that you would like to see developed in the area

- Recreation centers & modern sports ground
- Modern library
- Tarmaced roads

10. Any other comments/Suggestions you would like to make in relation to this proposed project

Signature.....



Date.....

15/1/2021

THANKYOU FOR YOUR RESPONSE

Annex 19: NEMA Practicing License

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/12999

Application Reference No: NEMA/EIA/EL/17181

M/S **CHARLES KIRIMI MUTHINJA**
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is licensed to practice in the

capacity of a (Lead Expert/Associate Expert/Firm of Experts) **Lead Expert**
registration number **1622**

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

Issued Date: 7/16/2020

Expiry Date: 12/31/2020


Signature.....

(Seal)
Director General
The National Environment Management Authority



Annex 20: Photo of some of the infrastructures around the proposed site



During inspection of the waste management system at Wakulima by the Lead team



The proposed Tetra Pack Fino Extension Unit already under construction at Wakulima dairy



Raw Milk being delivered to the factory for processing



Incinerator at Wakulima dairy



Reception Area at Wakulima Dairy

Annex 21: Photos during Public participation

