ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT STUDY FOR THE PROPOSED NAIROBI WALDORF SCHOOL TRUST ALONG NANDI ROAD, KAREN, NAIROBI COUNTY

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CERTIFICATION

A. EIA EXPERTS

This Environmental Impact Assessment Study (EIAS) Terms of Reference were prepared by **Devlink Resources Consultants**, a Firm of Experts, NEMA Registration Number **2355**. The Firm's Staff who participated in the actual ESIA Study include:

i. **Patrick Kituta-** Lead Expert NEMA Reg. No 1275
ii. **Patience Gwaro-**Lead Expert NEMA Reg. No 8950
iii. **Boniface Mwaniki-**Associate Expert, NEMA Reg. No 10414
iv. **Burhanudin Mohamud-**Associate Expert, NEMA Reg. No 10566
v. **Esther Muthiani-**Associate Expert, NEMA Reg. No 8770

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LEAD EXPERT

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B. PROJECT PROPONENT

PROPONENT: **The Nairobi Waldorf School Trust**
CONTACT PERSON: **James Kioko**
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LOCATION: **Nandi road, Karen, Nairobi County**
GPS COORDINATES: **1°19'09.8"S; 36°42'29.3"E.**

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James Kioko Muthusi
School Manager

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James Kioko Muthusi
School Manager

EXECUTIVE SUMMARY

The Nairobi Waldorf School Trust aims to establish a ground-level educational facility in Karen, Nairobi, dedicated to implementing the Waldorf educational system for pre-primary, primary and secondary education. This Environmental and Social Impact Assessment (ESIA) report evaluates the project's potential impacts and mitigation measures, addressing concerns raised during public consultations and regulatory processes.

Project Overview:

The project includes the construction of 20 temporary classrooms, a dining hall, workshops, laboratories, and associated amenities to accommodate up to 400 students. The initiative seeks to enhance educational infrastructure and promote holistic development through sustainable practices in Karen and Nairobi environs.

Regulatory Background:

Following initial ESIA approval and commencement of construction, procedural challenges led to a license revocation by the National Environment Tribunal in 2024, with a recommendation that the process be repeated to allow for more public consultation and participation. Subsequently, the Nairobi Waldorf School Trust commissioned Devlink Resources Consultants to conduct a comprehensive ESIA study to allow for more public consultation hence address community concerns and ensure compliance with regulatory standards.

Stakeholder Engagement:

Extensive stakeholder engagement informed the ESIA process, including consultations with local communities, authorities, and environmental experts. Issues such as public participation, environmental impact assessment, and project design alternatives were deliberated to align with sustainable development goals. This was achieved through public meetings and administration of questionnaires.

Potential Environmental Considerations:

The ESIA identifies potential impacts on traffic, water resources, waste management, and biodiversity. Mitigation measures include traffic management plans, rainwater harvesting systems, and ecological landscaping to minimize ecological footprint and enhance environmental sustainability.

Potential Social Impacts:

The ESIA identifies potential one of the major social impact of the project as noise pollution. Several mitigation measures to help address this concern such as sound proofing the play fields, the auditorium hall, building artificial hills accompanied by dense vegetation or sound proofing the windows of the houses of the most affected neighbors have been recommended. As well, the project aims to positively impact the community by providing employment opportunities and improving educational access. Concerns regarding increased population density and cultural impact were addressed through community feedback and adaptive planning strategies.

Project Status and Recommendations:

Despite initial construction progress, incomplete phases await completion pending revised regulatory approval. An Environmental and Social Management Plan (ESMP) has been developed for the proposed development. The ESIA recommends continued stakeholder engagement, adaptive management practices, and adherence to environmental standards to ensure project viability and community acceptance.

Conclusion:

The ESIA underscores the Nairobi Waldorf School Trust's commitment to sustainable development principles while addressing educational needs in Karen. By integrating stakeholder insights, environmental safeguards, and regulatory compliance, the project aims to contribute positively to local socio-economic dynamics and environmental stewardship.

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1. CHAPTER ONE: INTRODUCTION

1.1 Project Background

The Nairobi Waldorf School Trust has allocated funds for the development and operation of a ground-level school facility to facilitate the Waldorf learning system for pre-primary, primary and secondary education. The proposed construction will comprise twenty classrooms, three laboratories, a workshop, a dining hall, and associated amenities such as toilets, play fields and auditorium hall to support up to 400 students, including both local and international pupils within Karen and Nairobi metropolitan. This initiative aims to enhance the educational infrastructure for Waldorf education in the region.

In early 2022, The Nairobi Waldorf School Trust conducted an Environmental and Social Impact Assessment (ESIA) for the proposed project. This assessment, completed in May 2022, led to the issuance of a project implementation license by the National Environment Management Authority (NEMA), allowing the construction to proceed ***(see attached copy of license for reference***).

However, in 2024, neighboring residents challenged the ESIA process at the National Environment Tribunal, arguing procedural inadequacies. The Tribunal subsequently ordered NEMA to revoke the license and mandated that the proponent undertake a full ESIA study to allow for enhance public consultation and participation for re-evaluation and approval. In response to the order, The Nairobi Waldorf School Trust has commissioned an Environmental Consulting Firm to carry out a full ESIA study.

Before the license was revoked, the proponent had completed the construction of 15 classrooms, all washrooms, the dining hall, an auditorium hall, two play fields, a workshop and a laboratory. Facilities yet to be constructed include 5 classrooms, a workshop and 2 laboratories.

This ESIA study was conducted in accordance with Section 58 of the Environmental Management and Coordination Act (EMCA), Legal Notice No. 101 of 2003 (Revised in 2016), and Legal Notices Numbers 31 and 32 of 2019. The purpose of this ESIA report is to provide detailed information on the potential environmental and social impacts associated with the construction and operation of the proposed project as well as enable more public consultation and participation. This comprehensive evaluation will aid relevant authorities in making informed decisions regarding the project's feasibility and compliance with environmental standards.

1.2 Objectives

The objective of this project is to address the identified need for enhanced educational facilities tailored to the Waldorf learning system within the Nairobi metropolis, specifically targeting the Karen area.

The aim of the ESIA study is to evaluate the potential effects and impacts of the proposed development on the general environmental aspects, encompassing physical, biological, and socio-economic environments. The ESIA study will provide a comprehensive analysis that will inform decision-making processes by relevant authorities, ensuring that the project contributes positively to the community and environment while adhering to sustainable development principles.

1.3 Scope of Project

The scope of the ESIA study report took into account inter alia environmental, social, cultural, economic, legal, safety and health considerations. The scope of this ESIA, therefore, covered:

- The baseline environmental conditions of the project area,
- Description of the proposed project,
- Provisions of the environmental laws pertinent to the project,
- Assessment of alternatives to the project
- Identification and discussion of any adverse negative impacts to the environment anticipated from the

proposed project,
- Appropriate mitigation measures,
- Provision of an environmental and social management plan outline.

The scope of the assessment covered the project site, area in close proximity to the proposed site, construction and operation works, and the utilities under the project. The output of this work was a full ESIA study report for the purposes of applying for an ESIA licence.

1.4 Terms of Reference for the ESIA

Devlink Resources Consultants, a NEMA registered and licensed firm of experts in Environmental Impact Assessment and Auditing, was appointed by the project proponent as the consulting firm to conduct the ESIA study for the proposed Waldorf educational facility development in Karen, Nairobi. The ESIA includes the necessary specialist studies to determine the environmental impacts related to the biophysical and socio-economic aspects and to identify issues or concerns from relevant authorities and interested and/or affected parties. The appropriate measures to ensure the coexistence of the proposed development with other social and economic activities in the area are provided as part of the ESMP. The consultant, on behalf of the proponent, conducted the study by incorporating the following terms of reference inter alia:

- The objectives of the project
- A description of the location of the proposed project
- The technology, procedures, and processes used in the implementation of the project
- The materials used in the construction and implementation of the project
- The products, by-products, and waste generated by the project
- A concise description of the national and county environmental legislative and regulatory framework
- Baseline information and any other relevant information related to the project
- Recommendations for a specific, environmentally sound, and affordable waste management system
- Public participation forums
- Environmental impacts analysis of the project, including direct, indirect, cumulative, irreversible, short-term, and long-term impacts, as well as social, economic, and cultural analyses
- Integration of climate change vulnerability assessment, adaptation, and mitigation actions
- Analysis of alternatives, including project site, design, technologies, and processes, and reasons for preferring the proposed site, design, technologies, and processes
- An environmental management plan proposing measures for eliminating, minimizing, or mitigating adverse impacts on the environment, including the cost, timeframe, and responsibility to implement the measures
- Provision of an action plan for the prevention of foreseeable accidents, occupational diseases, and management of hazardous activities during the project's activities
- Identification of gaps in knowledge and uncertainties encountered in compiling the information

1.5 Responsibility and Undertaking

The proponent had the responsibility to provide the information required by the consultant, including site plans showing roads, service lines, building layout, and the actual sizes of the sites; details of raw materials; proposed process outline and anticipated by-products; future development plans; operation permits and conditions; land-ownership documents and site history; and estimated investment costs. The output from the consultants includes the following:

- An Environmental and Social Impact Assessment report comprising an executive summary, assessment approach, baseline conditions, anticipated impacts, and proposed mitigation measures
- An Environmental and Social Management Plan outline, which also forms part of the report recommendations

1.6 Methodology

The methodology used for preparing this ESIA study report involved the following steps:

a) **Screening of the Project**: This step determined whether an ESIA was required and what level of assessment was necessary. Issues considered included the physical location, sensitive receptors in close proximity to the site, and the nature of anticipated impacts. It was concluded that the proposed project falls within the category of projects under the second schedule of EMCA CAP 387 that requires an Environmental Impact Assessment to be carried out before implementation.

b) **Scoping Exercise**: This identified the key issues to be addressed in the assessment, helping to narrow down the most critical issues requiring attention during the assessment. Environmental issues were categorized into physical, natural/ecological, social, economic, and cultural aspects. The site history and facilities in close proximity to the site were considered during this stage.

c) **Document Review**: This involved reviewing the nature of the proposed activities, policy and legal framework, environmental setting of the area, the previously done ESIA report and other relevant data/information.

d) **Public Participation and Discussions**: Engaged the local community, local leadership and residential groups, proponent, and project team regarding the proposed project. The residents/property owners surrounding the project site were interviewed, and their views towards the upcoming project were solicited through questionnaires and meetings held within the project site with immediate neighbors as well as representatives of different groups such as People Living With Disabilities (PLWD), youth, religious groups, gender, political class and government administration.

e) **Physical Evaluation**: Conducted a physical evaluation of the project site and the surrounding areas using a pre-prepared checklist with a specific focus on environmental and human safety issues likely to be affected.

f) **Reviewing Project Designs and Implementation Plans**: Suggested suitable alternatives after reviewing the proposed project designs and implementation plan/schedules.

g) **Developing an ESMP Outline**: Created an ESMP outline with responsibilities, schedules, indicators, and timeframes among other aspects.

h) **Comprehensive Report**: Prepared a comprehensive study report including issues as listed in the Environmental (Impact Assessment) Regulations 2003.

1.7 Constraints and Limitations

This report presents information that is generally consistent with the data and information gathered through various sources and approaches mentioned above. The findings and issues presented from the stakeholder and community engagement program represent the general views and perceptions of selected people and stakeholders. As such, they may not cover the specific issues for some unique situations or individuals affected by the project.

The validity of the secondary data used in this report should be viewed with reference to the data source publication dates. Therefore, it is necessary to view such information with reference to the time reference and the limitations specific to the publication.

1.8 Structure of the ESIA Report

a) **Executive Summary**: Presents a brief overview of the project, summary of significant findings, expected environmental and social impacts, and recommended mitigation actions for negative impacts.

b) **Chapter 1: Introduction**: Provides the project background, objectives, the client, terms of reference, justification, ESIA study methodology, and the ESIA study team.

c) **Chapter 2: Project Description**: Describes the project location, project design, and construction inputs. It also provides alternatives to the proposed project, including an alternative site and the consequences of the 'no-action' alternative.

d) **Chapter 3: Baseline Information**: Describes the physical, biological, and socio-economic environmental setting of the project area.

e) **Chapter 4: Policy, Legal, and Institutional Framework**: Outlines the policy, legal, and institutional requirements in Kenya, and other international regulations relevant to this project.
f) **Chapter 5: Public Consultation and Participation**: Presents the stakeholders consulted and issues arising from the consultations and public meetings.
g) **Chapter 6: Impacts Assessment and Mitigation Measures**: Analyzes beneficial and adverse impacts of the project on the biophysical and human (social, cultural, and economic) environments.
h) **Chapter 7: Environmental and Social Management Plan**: Presents the environmental management plan during construction, operation, and decommissioning phases of the proposed project. This chapter also includes an environmental and social monitoring plan.
i) **Chapter 8: Conclusions**: Summarizes the potential environmental and social aspects of the project, considering the mitigation measures observed during the reconnaissance and field visits.
j) **Chapter 9: References**: Lists the reference materials used in preparing the draft ESIA study report.
k) **Chapter 10: Appendices**: Includes the tools used in undertaking the field study for the preparation of the ESIA study report, including project designs and public consultation documents.

2. CHAPTER TWO: PROJECT DESCRIPTION

2.1 Project Brief

In 2022, the Nairobi Waldorf School Trust proposed to construct 20 classrooms, a dining hall, and associated amenities, enabling the school to accommodate up to 300 learners. The classrooms are to be temporary structures made of timber products and materials. The development comprises:

- 12 ground-level classrooms for primary education
- 4 ground-level classrooms for secondary education
- 4 ground-level classrooms for kindergarten and playground
- A dining hall
- 2 workshops
- 3 laboratories

Amenity infrastructure includes ablution facilities for both genders to accommodate staff and learners, playing fields and auditorium hall. An existing building on the proposed project site will serve as the administration block. This project was subjected to a Comprehensive EIA, and an EIA License was issued on November 29, 2022. However, the area Residents Association appealed to the National Environment Tribunal, citing inadequate public participation and consultation. Consequently, the Tribunal recommended a full ESIA study to ensure adequate public consultation and participation.

Before the license cancellation in 2024, the proponent had already erected 15 classrooms, the dining hall, the auditorium hall, the playing fields, one workshop and one laboratory. Only 5 classrooms, 2 laboratories, and one workshop remain to be constructed. This ESIA study aims to enable NEMA to advise the project proponent on the best way forward regarding the project's implementation.

2.2 Proposed Project Activities

The proposed development by the Nairobi Waldorf School Trust involves the construction of temporary, fabricated classrooms made of timber products and roofing materials. The project site was initially undeveloped, highly vegetated, and covered with grass. The following sections outline the key activities involved in the preparation and construction of the proposed facility.

2.2.1 Site Preparation

The project site, initially undeveloped and highly vegetated, will undergo minimal clearing to make way for the proposed development. Efforts will be made to retain as much natural vegetation as possible to preserve the environmental integrity of the area.

2.2.2 Excavation and Foundation Works

Due to the temporary nature of the classrooms, deep excavations will not be necessary. Site preparation for the installation of foundations, pavements, and drainage systems will involve minimal disturbance, using light earthmoving machinery to ensure minimal environmental impact.

2.2.3 Storage of Materials

Building materials will be stored on-site to minimize environmental disruption. Bulky materials such as timber and prefabricated components will be carefully organized, and sensitive materials like cement and paints will be stored in temporary storage structures designed for this purpose.

2.2.4 Masonry, Concrete Work, and Related Activities

Limited masonry and concrete work will be required due to the use of timber and prefabricated materials. Any necessary masonry work for pavements, drainage systems, and minor structural components will be conducted

using light tools and machinery.

2.2.5 Structural Timber Works

Structural timber works will include cutting, assembling, and erecting the timber framework to ensure the stability and safety of the temporary classrooms.

2.2.6 Roofing Works

Roofing activities will involve installing roofing materials such as timber panels and lightweight tiles. These materials will be raised to the roof using light machinery and fastened securely for durability and weather resistance.

2.2.7 Electrical Work

Electrical work will include basic earthing/grounding, electrical wiring, and the installation of lighting fixtures. The electrical systems will be designed to meet basic safety and functionality standards.

2.2.8 Plumbing

Plumbing activities will involve the installation of pipework to connect the development to the municipal sewer line, including systems for storm water drainage. Activities will include cutting and assembling pipes, using adhesives, and minor wall drilling.

2.3 Description of Project's Operational Activities

2.3.1 The Facility Uses

Upon completion, the new Waldorf educational facility will provide classrooms and associated amenities for up to 400 primary and secondary students. This facility will support the Waldorf learning system, offering a high-quality educational environment with modern infrastructure designed to foster the holistic development of students from both local and international backgrounds within the Karen and Nairobi areas.

2.3.2 Landscaping

After the construction phase, the site will be landscaped to enhance its aesthetic value and blend with the natural surroundings. Landscaping will involve the use of existing and locally available plant species wherever possible, ensuring that the project integrates seamlessly with the forested and grassy environment of the area.

2.3.3 General Cleaning

General cleaning will involve regular washing and maintenance of the facility's spaces, including classrooms, dining areas, common areas, pavements, and other public areas. This will ensure a clean and conducive learning environment for students and staff.

2.3.4 General Repairs and Maintenance

During the operational phase of the project, regular repairs and maintenance will be conducted to ensure the longevity and functionality of the facility. Activities will include repairing and maintaining building walls and floors, servicing electrical systems and equipment, fixing leaking water pipes, repainting, and replacing worn-out materials as necessary. These efforts will ensure the facility remains in good condition and continues to provide a safe and supportive environment for education.

2.4 Description of the Project's Decommissioning Activities

Decommissioning is an important phase in the project cycle and comes last to wind up the operational activities of a particular project. It refers to the final disposal of the project and associated materials at the expiry of the project lifespan. If such a stage is reached, the proponent needs to remove all materials resulting from the demolition/ decommissioning from the site. The following should be undertaken to restore the environment:

i. Dismantling of all equipment including electrical and mechanical installations

ii. Remove all underground facilities from the site
iii. The site should be well landscaped by flattening the mounds of soil
iv. Planting vegetation which may include indigenous trees and flowers
v. Fence and signpost unsafe areas until natural stabilization occurs
vi. Backfill surface openings

2.5 Construction Products, By-Products, and Wastes

2.5.1 Products

The final product of the Nairobi Waldorf School Trust project will include:

- 20 temporary classrooms made of timber products and materials
- A dining hall
- 2 Workshops
- 3 laboratories
- Associated amenity infrastructure such as ablution facilities for both genders, playing fields and auditorium hall

2.5.2 By-Products

The by-products generated during the construction phase will be managed as follows:

i. **Soil**: Soil generated during excavation will be reused within the project where applicable. Unusable soil will be transported to designated dumping sites by NEMA-licensed waste handlers.
ii. **Timber/Wood**: Large pieces of timber/wood will be transported back to the contractor's yard for future reuse. Smaller pieces will be disposed of for use as fuel for cooking and heating.
iii. **Empty Cans and Drums**: These will be used to store water during construction. Damaged ones will be disposed of at registered scrap metal and plastic waste dealers.
iv. **Excess Sand, Ballast, and Stockpiles**: These materials will be stored properly for future construction activities, such as renovations. Upon project completion, the contractor will move these to a suitable yard.

2.5.3 Wastes

The solid waste generated during construction will include construction debris, sanitary waste, and excavated soil and rocks. During operation, solid waste will include paper, plastics, cans, glasses, metallic pieces, and organic waste. All liquid waste generated throughout the project cycle will be conveyed to the septic waste water system.

2.6 Project Budget and Duration

The proposed project was estimated to cost thirty million shillings (KES 30,000,000) and the implementation was expected to take 6 months to completion, thus only one month is needed to complete the remaining parts of the project.

3. CHAPTER THREE: BASELINE INFORMATION

3.1 Introduction

The Environmental Baseline Assessment is essential for predicting and evaluating the potential environmental impacts of the proposed Nairobi Waldorf School Trust. This baseline study will help in understanding the existing environmental conditions, defining the focus of the environmental impact analysis, and identifying resources that require protection through appropriate and viable mitigation measures.

The baseline study process will include a comprehensive scoping exercise covering various issues such as climatic conditions, drainage and water resources, soils, flora, fauna, land use, land tenure, and socio-economic aspects. Baseline environmental information will be assembled through the collection and analysis of existing data, supplemented by specific field studies.

3.2 Project Location

The proposed site is located along Nandi Road in Karen, within Karen Ward, one of the five wards in Langata Constituency of Nairobi County. The site is situated in a tranquil residential area, surrounded by mansions and abundant trees, contributing to a serene atmosphere. The GPS coordinates of the proposed site are 1°19'09.8"S and 36°42'29.3"E.

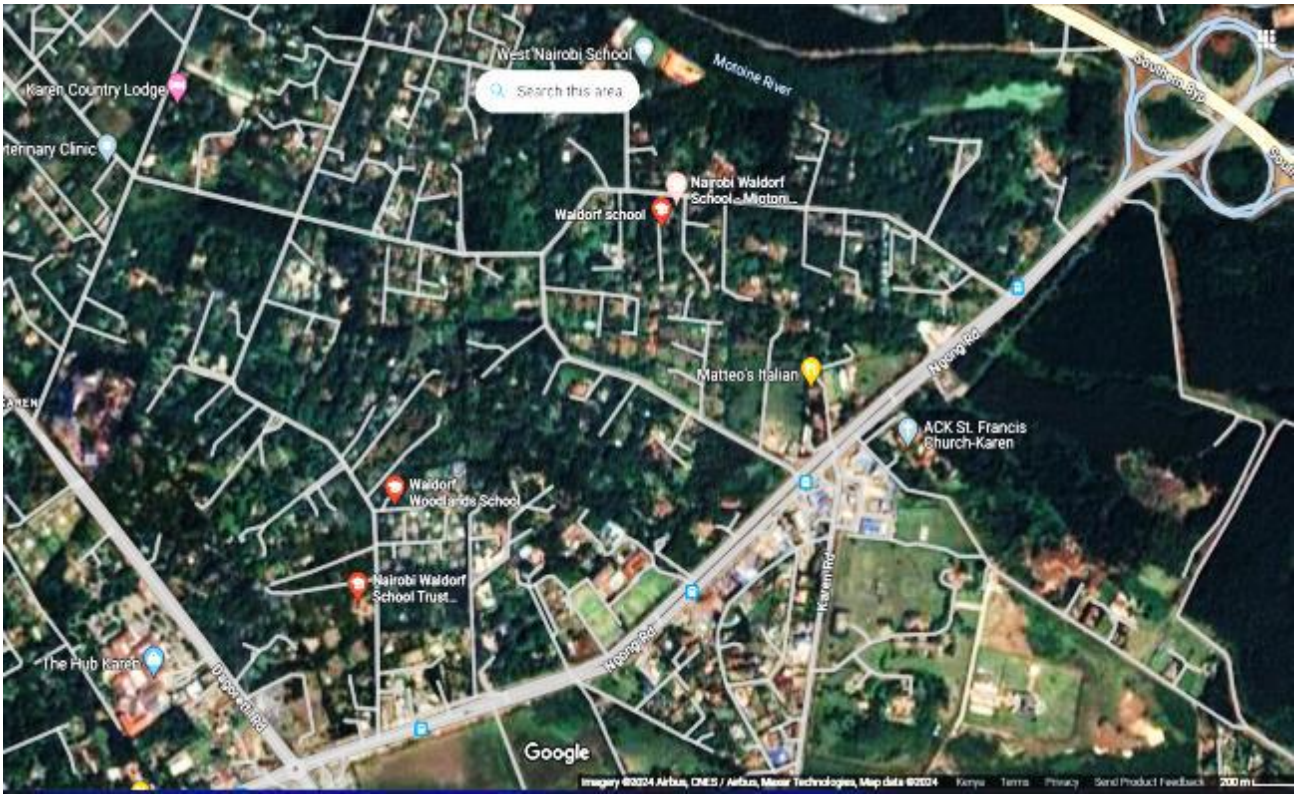

Figure 1: Google map indicating the location of the Nairobi Waldorf School Trust

3.3 Biophysical Environment

3.3.1 Temperature

The project site is located in Karen, which lies at an elevation of 1,800 meters above sea level. Karen experiences a marine west coast, warm summer climate (Köppen classification: Cfb). Preliminary data indicates that the area has an average annual temperature of 21.39ºC (70.5ºF), which is slightly lower than Kenya's average temperature by 1.11%.

3.3.2 Precipitation

Karen typically receives about 133.34 millimeters (5.25 inches) of precipitation annually, with rainfall occurring on approximately 220.08 days (60.3% of the year).

3.3.3 Vegetation Cover

The site is predominantly a terrestrial habitat, densely vegetated and highly forested. Karen is home to a variety of plant species and supports a rich biodiversity, including about 100 species of mammals and 527 bird species. The nearby Oloolua Forest, managed by the Institute of Primate Research, is a significant ecological feature, providing habitat to many tree, plant, and small animal species, mainly primates.

Figure 2: Vegetation around some of the constructed school facilities

3.3.4 Geography

Karen is a suburb of Nairobi, located southwest of the central business district. It borders the Ngong Forest and houses the Ngong Racecourse. Historically, Karen was part of Ngong County, but after Nairobi was granted city status in 1950, the boundaries were redefined, and Karen came under the administration of the Nairobi City Council. The suburb is named after Karen Blixen, the Danish author whose farm was situated in the area.

3.3.5 Winds

Preliminary data indicates that the windiest month in Karen is December, with an average hourly wind speed of 10.8 miles per hour. The calmer period of the year lasts for about 4.4 months, from April 26 to September 8, with June being the calmest month, having an average hourly wind speed of 6.8 miles per hour.

3.3.6 Sunshine

January is the sunniest month in Karen, with an average of 288 hours of sunshine. Conversely, August has the lowest amount of sunshine, averaging 127 hours. The annual total of sun hours is approximately 2,452 hours.

3.4 Socio-Economic Environment

3.4.1 Demography

Karen is predominantly populated by the wealthier demographic of Kenyans and members of the political class. The Karen Langata Association, organized in 1940, manages the infrastructure and services of the area. In Karen Ward, approximately 25,000 individuals call it home, residing in around 8,000 households. Thanks to its expansive property sizes and abundant greenery, Karen boasts a notably low population density compared to other areas of Nairobi. The demographic makeup leans towards adults, with a notable presence of middle-aged and elderly

residents. However, the area also accommodates a significant number of children and young adults due to the abundance of schools and educational facilities. Gender-wise, Karen maintains a relatively balanced distribution, albeit with a slight edge towards females.

3.4.2 Infrastructure

Karen is characterized by spacious residential properties, many trees, a tranquil atmosphere, and lush gardens, attributed to the area's minimum acreage requirement for homeowners. It hosts numerous upscale restaurants, hotels, and commercial hubs such as the Karen Hub and the Waterfront. The area also houses offices of several international organizations like World Vision and the Red Cross.

3.5 Social Cultural Profile

Karen's residential area originated from a 6,000-acre farm purchased in 1916 by the Karen Coffee Company, owned by the Karen Blixen family. Over the years, the area has developed into a culturally diverse residential zone known for its affluent homes and rich history.

3.6 Economic Activities

The economic activities in Karen are influenced by the predominant land uses, which include residential, educational, public purposes, and offices. Major employers in the area include educational institutions, flower farms, cottage industries, commercial centers, petrol filling stations, garages, construction sites, security firms, and residents. Specific economic activities near the proposed site include real estate businesses, educational facilities, transport services such as *bodaboda* operators, and a few public service vehicles.

4. CHAPTER FOUR: POLICY, LEGAL AND INSTITUTIONAL FRAMEWORK

4.1 Introduction

Kenya has a policy, legal, and administrative framework for environmental management. Under the framework, NEMA is responsible for ensuring that EIAs are carried out for new projects and Environmental audits on existing facilities as per EMCA, 1999 (revised in 2015). Otherwise, there are a number of policy and legal framework that have direct bearing on the construction and optimum operation of development projects. They include the following:

4.2 Policy Framework

Table 1: Policy review

Policy	Overview	Relevance to the Project
Constitution of Kenya 2010	Grants every person the fundamental right to a clean and healthy environment. It mandates the protection, management, and conservation of the environment and associated resources for the benefit of future generations.	The project must ensure compliance with constitutional provisions by implementing sustainable environmental practices and promoting a clean and healthy environment for the school's community.
Environment and Development Policy (Sessional Paper No.6 of 1999)	Aims to harmonize environmental and development goals to ensure sustainability. It provides comprehensive guidelines and strategies for government action regarding the environment and development.	The project should align with this policy by balancing development needs with environmental conservation efforts, ensuring sustainable growth and environmental stewardship.
National Environmental Action Plan (NEAP)	Integrates environmental considerations into the country's economic and social development through a multi-sectoral approach, creating a comprehensive framework for environmental management and conservation.	The project should incorporate NEAP principles by integrating environmental management into all phases of development, from planning to implementation and operation.
National Bio-Diversity Strategy	Aims to reverse biodiversity loss, maintain biological resources at sustainable levels, and ensure fair and equitable benefit-sharing from biodiversity utilization.	The project should include measures to conserve local biodiversity, sustainably use biological resources, and promote biodiversity awareness and education among students and the community.
Vision 2030	Emphasizes the role of Science, Technology, and Innovation (ST&I) in raising productivity and efficiency across its three pillars: economic, social, and political. Advocates for a policy framework supporting ST&I to accelerate economic development.	The project should incorporate innovative and sustainable technologies in its design and operations, supporting the Vision 2030 goals of enhanced productivity and efficiency.
National Climate Change Action Plan	Outlines strategies for mitigating and adapting to climate change, addressing climate-related risks and impacts.	The project should include climate resilience measures, such as energy-efficient buildings, renewable energy use, water harvesting and conservation measures and strategies to mitigate and adapt to climate change impacts.
National Land Policy	Provides guidance on land use planning, tenure, and management, influencing land acquisition and development.	The project must adhere to land use planning and management guidelines, ensuring lawful and sustainable land acquisition and development practices.
National Policy on Gender and Development	Promotes gender equality and women's empowerment, addressing socio-economic aspects, employment, and community engagement.	The project should ensure gender equality in employment practices, community engagement, and educational opportunities, promoting an inclusive and equitable environment.
National Policy on Disaster Management	Outlines strategies for disaster risk reduction and response.	The project should incorporate disaster risk reduction measures, ensuring safety and preparedness for potential natural and man-made disasters.
National Policy on Conservation and Management of Forests and Trees in Kenya	Provides guidance on forest conservation measures and sustainable land use practices.	Given the forested nature of the project site, the project must include forest conservation measures, preserving existing trees and incorporating sustainable land use practices.
National Education Sector Policy on Early Childhood Development (ECD)	Sets out guidelines and standards for early childhood education in Kenya.	The project should comply with ECD guidelines and standards, ensuring that the educational facilities meet the required specifications for early childhood development.

4.3 Legislative framework

Table 2: Legislative Framework

Legislation	Scope and Key Requirements	Application to Project
The Water Act, 2016	Prohibits the pollution of water resources and requires a water permit for any use of water. The Act vests water resources in the state and mandates the Minister for Water Resources Development and Management to oversee their use.	The project must obtain the necessary water permits and implement measures to prevent water pollution, ensuring sustainable water use and compliance with the Act.
Education Act	Regulates the education sector in Kenya, including the establishment and management of educational institutions such as schools.	The project must adhere to the guidelines and standards set by the Education Act for the establishment and management of the Waldorf educational facility, ensuring compliance with national education regulations.
Environment Management and Coordination Act, 1999 (Revised in 2015)	Provides a legal and institutional framework for environmental management. Section 58(1) requires proponents of specified projects to submit an Environmental Impact Assessment (EIA) report before proceeding.	The project must comply with the requirements of EMCA by conducting an EIA and implementing recommended mitigation measures to minimize environmental impact.
Environmental Impact Assessment and Audit Regulations 2003 (Revised in 2016)	Stipulates the requirements, stages, and stakeholder roles in the EIA process.	The project must follow these regulations to ensure a thorough and compliant EIA process, engaging relevant stakeholders and providing necessary information.
Air Quality Regulations 2014	Provides for the prevention, control, and abatement of air pollution, including limits on particulate matter emissions from construction activities.	The project must implement measures to control dust and particulate emissions during construction to comply with air quality standards and regulations.
Waste Management Regulations 2006	Provides guidelines for handling, packaging, treatment, storage, and disposal of waste, and mandates the use of licensed waste handlers for disposal.	The project must ensure proper waste management practices, using licensed waste handlers and complying with regulations to minimize environmental impact.
Noise and Excessive Vibrations Pollution Control Regulations 2009	Prohibits noise pollution above permissible levels, providing standards for maximum noise levels in different zones and during various activities.	The project must implement noise control measures during construction and operation to ensure compliance with permissible noise levels and minimize disturbance to the surrounding community.
Water Quality Management Regulations, 2006	Requires actions to prevent water pollution and protect water sources from contamination.	The project must implement measures to protect water quality, ensuring that construction and operational activities do not contaminate water resources.
Conservation of Biological Diversity and Resources, Access to Genetic Resources and Benefit Sharing) Regulations, 2006	Prohibits activities that adversely impact ecosystems or lead to unsustainable use of natural resources without an EIA license. It also regulates access to and use of biological diversity.	The project must ensure that it does not negatively impact local biodiversity and complies with regulations on the sustainable use of natural resources, securing the necessary EIA license.
Climate change Act	This is an Act of parliament to provide a regulatory framework for enhanced response to climate change at both the National and County Government levels, to provide for mechanisms and measures to achieve low carbon climate development, and for connected purposes.	The EIA shall Evaluate how projected climate changes could exacerbate or alter identified impacts. Assess project vulnerabilities to climate hazards (e.g., flooding, heat). Proponent must Ensure climate change considerations are addressed in the decision-making process. Review the adequacy of proposed adaptation and mitigation measures.
Factories and Other Places of Work Act, Revised in 2012	Provides for the health, safety, and welfare of persons employed in factories and other workplaces, including waste management and safety measures.	The project must ensure a safe working environment, adhering to health and safety regulations, and managing both hazardous and non-hazardous wastes properly.

The Environment and Land Court Act, 2011	Establishes a court to hear and determine disputes related to the environment and land use.	The project must be prepared to address any legal disputes related to environmental or land use issues through the appropriate legal channels.
Forest Conservation and Management Act	Addresses conservation and sustainable management of forests.	Given the forested nature of the project site, the project must comply with this Act to ensure sustainable forest management and conservation practices.
Wildlife Conservation and Management Act	Addresses conservation and management of wildlife and protected areas.	The project must consider the proximity to wildlife habitats and implement measures to avoid negative impacts on local wildlife and comply with conservation regulations.
National Construction Authority Act, 2011	Regulates the construction industry, including standards for building construction and safety.	The project must adhere to construction standards and safety regulations to ensure high-quality and safe building practices.
Sustainable Waste Management Act No. 31 of 2022	Defines waste management practices and responsibilities. Requires segregation of non-hazardous waste into organic and non-organic fractions; penalties for non-compliance.	Segregation of waste at the project site; hire waste service providers to handle and transport segregated waste.
Public Health Act (Cap. 242)	Secures and maintains public health standards. Prohibits nuisances or conditions injurious to health.	Ensure proper management of waste to avoid public health nuisances during the project.
Public Health (Drainage and Latrine) Rules	Regulates provision and construction of drainage and latrines. Requires proper latrines for workers; prohibits construction of latrines other than specified types if near a sewer.	Provision of latrines and proper waste management during construction.
County Governments Act, 2012	Outlines county government responsibilities and public participation. Mandates public hearings for projects of national significance; establishes citizen forums for public participation.	Ensure public participation and approval processes are followed in Nairobi County.
Urban Areas and Cities (Amendment) Act, 2019	Provides criteria for classifying urban areas and cities. Requires integrated development planning for cities and municipalities.	Liaise with county authorities for project approval and coordination with urban planning regulations.
Traffic Act, Cap 403	Regulates vehicular emissions and road safety. Empowers police to remove vehicles with noxious emissions; vehicles must use specified fuels and be well-maintained.	Ensure construction vehicles comply with emissions standards and are properly maintained.
Physical Planning Act, 1996	Governs land planning and development approval processes. Requires development permission and submission of Environmental Impact Assessment (EIA) for certain projects.	Obtain development permissions and submit EIA report for the project.
Employment Act, 2007	Regulates employment conditions and protections. Covers employment relationships, wages, working conditions, and prohibits child labor.	Adhere to employment conditions, ensure no child labor, and provide proper working conditions.
Work Injury Benefits Act (WIBA)	Provides for compensation for work-related injuries. Outlines compensation entitlements for various types of injuries and accidents.	Ensure compliance with WIBA provisions for worker safety and compensation for any work-related injuries.
Occupational Safety and Health Act, 2007	Ensures safety, health, and welfare of workers in all workplaces. Covers safety measures, hazard management, and reporting of accidents.	Implement all safety and health measures throughout the project cycle, including hazard management and accident reporting.
HIV/AIDS Prevention and Control Act, 2006	Mandates HIV/AIDS education and awareness in the workplace. Requires provision of HIV/AIDS education to workers.	Incorporate HIV/AIDS education and awareness programs during the construction phase.
Energy Act, 2006	Regulates energy sector activities, including electricity and petroleum. Establishes the Energy Regulatory Commission; mandates licensing, tariff approval, and enforcement of energy standards.	Ensure compliance with energy regulations for any energy-related activities during the project.
Penal Code (Cap. 63)	Addresses offenses related to public health and safety. Prohibits pollution of water and making the atmosphere noxious to health.	Adhere to environmental management plans to prevent pollution and maintain public health and safety standards.

4.4 Administrative and Institutional Framework

There are several institutional arrangements responsible for development control in different sectors. In this project, some of the institutions whose mandates fall within the assignment include:

a) National Environmental Management Authority (NEMA)

Established under EMCA, 1999 (revised in 2015), NEMA acts as the lead agency in regulating development in relations to conservation, utilization, and management of environmental resources in the country. The objects and purpose of the NEMA are stipulated in Section 9(1) of EMCA, 1999 (revised in 2015) that charges the Authority with the responsibility of general supervision and co-ordination of all matters relating to the environment and representation of government in the implementation of all policies and regulations relating to the environment.

Relevance to the Project

NEMA is responsible for conditional issuance of Environmental Impact Assessment license. Besides, the authority has the responsibility to follow up on project development to ensure compliance to conditions set out in the license, and it has the power to revoke EIA license upon when convinced that project component violates the provisions of the license.

b) County Government Nairobi

Constituted under the First Schedule of the CoK, 2010, the county government Nairobi is responsible for initiating local and development projects within its jurisdiction. Some of the roles of the County government include the provision of county planning needs in the development arena; provision of health services; and provision of water and sanitation service. Similarly, the County government is responsible for development control in the local sub-counties, regulation of housing development through control and supervision measures; and maintenance of an inspectorate department for regulation and supervision of all development projects in the county.

Relevance to the Project

The County government is the custodian of the county's physical development plans. It must approve the development projects through the department of physical planning and housing development. Also the County government is responsible for regulation and inspection of development projects. Compliance to the provision of the licenses ensures smooth implementation for the project.

c) Ministry of Education

The Ministry of Education, as a government entity, oversees Kenya's education sector, managing policies on curriculum, teacher training, and educational infrastructure. The Ministry should collaborate closely with the The Nairobi Waldorf School Trust to ensure the project aligns with Kenya's education goals and standards.

Relevance to the Project

The Ministry reviews and approves for schools, among others: the School's curriculum to ensure compliance with national educational standards; ensures that teachers at the School possess the required qualifications and certifications; approves construction plans to guarantee school buildings meet safety and infrastructure requirements; monitors the school's educational quality to uphold national standards; Licensing and Accreditation; provides guidance on adhering to national education policies for improved educational quality.

d) Ministry of Health

This is the agency charged with the responsibility of ensuring adequate health and sanitation programs in the country on behalf of the national government. In the water and sanitation services, the ministry is responsibility for supervising the development of health and sanitation policies for effective management of wastes. The ministry is also responsible for provision of community health service, promotion of healthy behaviors, reproductive health campaigns, and ensuring food hygiene among other functions.

Relevance to the Project

The county government institutions in collaboration with, the ministry provide relevant advice on the location of water and sewerage treatment systems in the county. Consulting the national government before implementation of the project gives the project proponent a preamble of the expected systems of water and sewerage services provision in the county.

e) Ministry of Labour and Social Security Services

As a government agency, this ministry seeks to enforce labor laws, maintain industrial peace, industrial training and promote safety and health of employees. The Ministry also has a responsibility to develop and coordinate implementation of policies and strategies for human resource development, micro, and small enterprise sector and productivity improvement.

Relevance to the Project

The ministry is responsible for implementation and enforcement of occupational, health, labor, and social service policies in the country. The Proponent's compliance to the safety, social security, and welfare of the persons employed in the project implementation will be supervised by the ministry of labor and social security services. The department of occupational health and safety (DOSHS) in the ministry will supervise the occupational health and safety policies set out by contractors the ensure conformity with the country's demands and expectations.

f) Water Resources Authority

This is an institution established under the Water Act 2016 as the principle authority of the government on all matters related to water utilization, resources, management and distribution. Part II, section 18, of the Water Act 2002 provides for national monitoring and information system on water resources. Additionally, sub-section 3 allows the Water Resources Authority (WRA) to demand from any person or institution, specified information, documents, samples or materials on water resources.

Relevance to the project

The proponent and all the allied stakeholders to the project shall ensure proper water use, management and conservation. In the event of borehole drilling WRA shall be consulted by the project hydro geologists for the purpose of attaining permits for borehole sinking. Besides, specific records may require to be kept by a facility operator and the information thereof furnished to the Authority

5. CHAPTER FIVE: PUBLIC CONSULTATION AND PARTICIPATION

5.1 Introduction

The Public Participation and Consultation Process is a policy requirement by the Government of Kenya which is enshrined in the constitution and a mandatory procedure as stipulated by EMCA Cap 387 for the purpose of achieving the fundamental principles of sustainable development. It is an important process through which stakeholders including beneficiaries and members of public living in project areas (both public and private), are given an opportunity to contribute to the overall project design by making recommendations and raising concerns on projects before they are implemented. In addition, the process creates a sense of responsibility, commitment and local ownership for smooth implementation.

This chapter describes the process of the public participation and consultation that was followed in order to identify the key issues and impacts of the proposed project. Views and concerns from the local residents, representatives of different groups (PLWD, Youth, Religious Groups, Gender, Political Class) local leaders, surrounding institutions and development partners for the proposed development, who in one way or another would be affected or have interest in the proposed development were sought through interviews as well as key stakeholder and public meetings as stipulated in the Environmental Management and Coordination Act Cap 387.

5.2 Objectives of the Consultation and Public Participation

The objectives of the consultation and public participation were to:

i. Create awareness among the public on the need for the EISA for the proposed project.
ii. Disseminate and inform the stakeholders about the project with special reference to its key components and location.
iii. Gather comments, suggestions and concerns of the interested and affected parties.
iv. Incorporate the information collected in the ESIA study.

In addition, the process enabled,

i. The establishment of a communication channel between the general public and the team of consultants, the project proponents and the Government.
ii. The concerns of the stakeholders to be known to the decision-making bodies at an early phase of project development
iii. Consultation on sensitive issues and establishment of mitigation measures for management of any impacts that may arise during construction and operation phases of the project.

5.3 Methodology Used in the CPP

The exercise was conducted by a team of experienced registered environmental experts and field assistants. The process in carrying out the entire exercise involved:

- Key informant interviews and discussions
- Field surveys and observations
- Completion of the pre-designed questionnaires which captured all the phases of the proposed development
- Meetings with stakeholders, including state officers, different group representatives, political class representatives, county government representatives, KLDA officials and neighbors to the project

The purpose for such interviews was to identify the positive and negative impacts and subsequently promote proposals on the best practices to be adopted and mitigate the negative impacts respectively. It also helped in identifying any other miscellaneous issues, which may bring conflicts in case project implementation proceeds as planned. The information gathered enabled the identification of the specific issues from the stakeholders' response, which provided the basis upon which the aspects of the ESIA was undertaken.

5.3.1 Stakeholder Engagement Program

Table 3: Stakeholder engagement program

Stakeholder	Area Of Influence	Project Phase	Stakeholder Manager	Engagement Approach	Engagement Tools	Frequency
National Environment Management Authority (NEMA)	Regulatory Compliance Environment Monitoring	ALL	Lead Expert	Consult and Report	Reports, Letters, Email	Very frequent
Proponent and design team	Project design and implementation	ALL	Lead Expert	Consult and Inform	Meetings, Emails, Telephone, Reports.	Very frequent
County Department of Planning	Regulatory Compliance Approval of new developments	Construction	Associate Experts	Consult	Information Boards/ Approval documents;	Occasional
Local Leaders/ Administration	Local Impacts and opportunities	All	Sociologist+ ESIA experts	Consult	Interview Questionnaires, meetings	Less frequent
Community/ Residents Groups	Social and communal impacts	All	Sociologist+ ESIA experts	Consult	Consultative Meetings	occasional
Neighbours	Direct impacts of project Implementation	All	Sociologist+ ESIA experts	Consult and Inform	Meetings and Questionnaires	Frequent
Businesses and Churches	Socio-economic Impacts	All	Sociologist+ Associate experts	Consult and Inform	Meetings and Questionnaires	Less frequent

5.4 Sources of Information

The public consultation exercise was to be conducted between **17th June and 10th July 2024**. On the 18th of June 2022; 25th June, 2024; and 3rd July, 2024; notices for meetings were put up at the Area Chief's Office in Karen; at the Nairobi Waldorf School Trust gates, along Nandi Road; as well as shared through email to keys stakeholders, including KLDA and to the Nairobi County officials. Other School stakeholders were invited via WhatsApp in their respective groups.

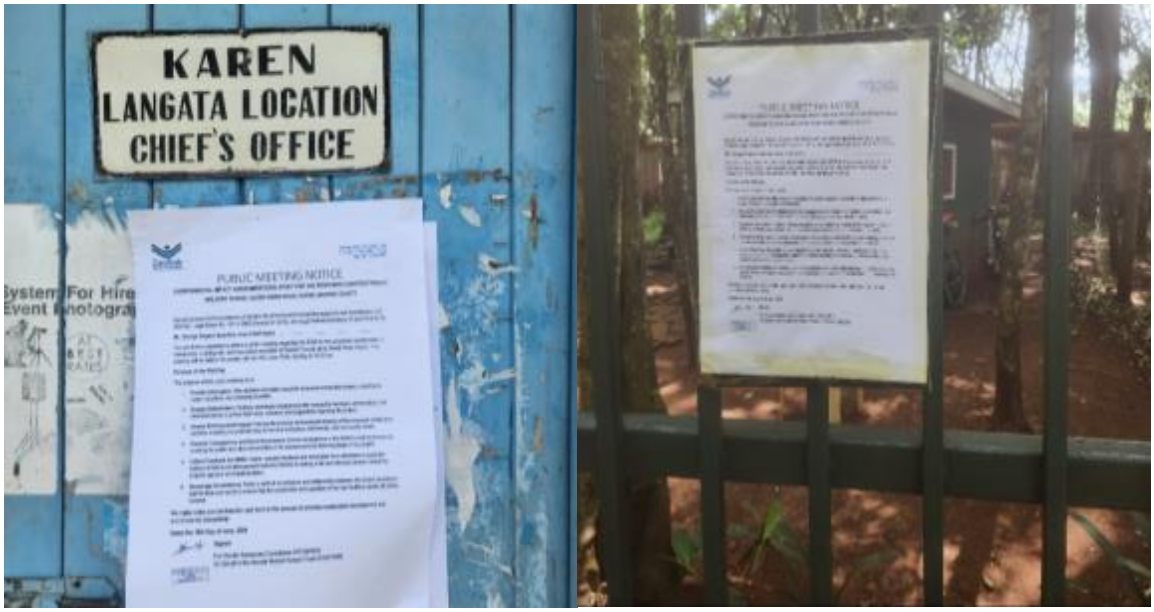

Figure 3: Notice displays in strategic locations

Meetings were planned to be held on the 25th June 2024, 3rd July 2024, and 10th July 2024 at the Nairobi Waldorf School Trust. As at the submission of this report, there had been held the first two meetings, on the 25th June and

2024, with only one of the 3rd July 2024 remaining. The two meetings were attended by various stakeholders including the Area Chief and Assistant Chiefs, Nairobi City County officials, neighbors to the school, representatives of the KLDA, community elders, representatives of different groups such as PLWD in and around Karen, parents of students, religious groups, political class and the school management. Engaging presentations were made, and discussions were held on the various project impacts and suggested mitigations for negative risks. (***See attached minutes for the first meeting for details).***

Other stakeholders were consulted through the use of pre-structured questionnaires. The exercise was conducted through interviews (both oral and written) under the guidance of developed questionnaires designed to capture the concerns, comments, and issues of local leadership, stakeholders, neighbors, and business people around the project site regarding the proposed project. The completion of this exercise allowed for the synthesis and analysis of the issues that arose.

5.5 Issues raised during Public Participation

5.5.1 Positive Issues

a) Employment Opportunities for the Locals

The respondents interviewed/consulted were optimistic that the proposed project activities would create numerous employment opportunities for skilled, semi-skilled and unskilled labour during the construction and operational phases. The development will need skilled labour force during operation and there will be access to employment once the development commences mostly for casual workers.

Employment opportunities are of benefit both economically and socially. Generally, employment will lead to multidimensional development in the area and improve several people's living standards.

b) Increased Revenue and Income Generating Activities

The use of locally available materials and labour for the proposed project activities would also contribute towards growth of the local and national economies by contributing to the Gross Domestic Product (GDP). The consumption of these materials like sand, cement, steel, building stones, timber, oil and others will attract taxes including Value Added Tax (VAT) which will be payable to the government hence increasing government revenue while the cost of these raw materials will be payable directly to the producers.

c) Increased Business Opportunities

The respondents and participants were optimistic that business opportunities will arise during construction and operation of the proposed development. Small scale business people such as food vendors and school equipment suppliers will benefit greatly during construction and operation stages due to the expected population influx.

The customer base for existing businesses will rise due to an influx of people and activities in the area as a result of the proposed development.

d) Improved and Increased Space in the Area

Some stakeholders were appreciative of the amenities that the proposed facility would offer them. They were also enthusiastic about accessing the much-needed school facilities that the project will provide. This will improve the learning environment for students and enhance their educational experiences.

e) Attraction of Investors

With the proposed development of the Nairobi Waldorf School Trust project commencing, investors will be attracted to invest in the area through various enterprises and associated businesses, thereby boosting the local economy and fostering community growth.

f) Improved Security

The respondents were optimistic that the development activities would lead to an improved security situation in the neighborhood due to the increase in population within the area. This would result in the contracting of various security firms and the installation of street and security lights.

g) Improved Road Services

With the promise of the proponent to put in place deceleration and acceleration lanes at the school gates, some respondents were hopeful that the project would lead to improved road services and the erection of street lights.

5.5.2 Negative Issues

a) Air Pollution

The respondents expressed concern over possibility of generation of large amount of dust and fumes within the development and surrounding areas as a result of construction works and transportation of construction materials. Comprehensive measures on dust control such as sprinkling water on bare grounds and limiting speeds have been developed and included in this ESIA report for implementation during the construction phase. An ESMP would also be put in place to ensure environmental sustainability of the development.

Following the operationalization of the project for the last two years, open grounds have been covered with gravel which has ensured that no dust is raised by vehicles entering and leaving the project site.

b) Noise Pollution and Vibrations

The respondents expressed fear over noise and vibrations that would be generated during the construction phase of the proposed project by the construction machines and other moving machines in the construction sites. They also raised concerns over noise from school children, especially during games-time. They were informed that the NEMA Noise and Excessive Vibration Pollution Control Regulations, 2009 would be adhered to throughout the implementation period in various projects. The proponent also proposed to put up artificial hills on the edge of the playground area and sound- proof the tennis/basketball/ football pitches; to filter any noise from the students during games. As well, the proponent has proposed to install low noise speakers in the auditorium as well as approaching some of the affected neighbors to sound proof their windows as well discourage the use of Public Address Systems (PAS).

The project proponent will also be informing the immediate neighbors through KLDA on any activities to be carried out within the school likely to generate a lot of noises in advance.

c) Traffic Congestion

Some of the respondents interviewed expressed fear over the proposed development possibly bringing about traffic congestion in the area along the access road (Nandi Road) to the proposed development site. They were concerned that the proposed development would attract an increase in traffic which would lead to congestion and possible accidents and traffic interruptions during construction as well as during the operation stage of the proposed Development. The proponent committed to put in place acceleration and deceleration lanes at the school gates to manage traffic congestion during pick-up and drop-off times. However, to be noted is that, for the last two years the proponent has operated the project, traffic has not been an issue. This is after being advised by Kenya Urban Roads Authority to have the drop and pick up point for students be within the school compound and have two gates to the school, i.e. entry and exit. This advice is proofing to be working well in alleviating any issue in relation to traffic flow along Nandi Road.

d) Water Scarcity

Water scarcity is already a problem for the neighborhood of the proposed site. Water supply by the county government is hindered by shortages, and neighbors were concerned that the school would exert more pressure on

the already limited supply. In response, the proponent has assured the concerned that the school has been and will continue to make use water bowsers for its water supply. This is after ruling out the possibility of drilling a borehole given that they are too many in the area. The project proponent was also advised to make sure that it harvests rainwater from its roofs as a climate change adaptation strategy.

e) Sewage Pollution

Some respondents wanted to know how the proponent planned to manage their sewage to ensure it does not end up being released into the environment. To address these concerns, the project proponent intends to implement an efficient wastewater management system. This system will ensure proper collection, treatment, and disposal of sewage generated by the school facilities, thereby preventing pollution of surrounding areas. The proposed measures aim to meet environmental standards and safeguard the local ecosystem from the adverse effects of sewage pollution.

By implementing effective wastewater management practices, the Nairobi Waldorf School Trust Project aims to mitigate potential impacts on water quality and public health in the surrounding community. Hence, the proponent has already constructed adequate septic tank systems. He was advised to ensure timely sewage exhaustion by a fully licensed exhauster.

f) Commercial Invasion of Karen

Representatives of KLDA highlighted their primary objective to preserve Karen as a low-density residential area and expressed concerns about commercial encroachment. They emphasized that maintaining Karen's residential character is crucial. In response, it was clarified that the Nairobi Waldorf School Trust is a social institution dedicated to enhancing the local community by providing high-quality education. The school's design concept emphasizes eco-friendly, temporary one-level structures with minimal impact on vegetation. Importantly, the school aligns with the Karen Architectural Plan to ensure compatibility with the surrounding environment and residential character of Karen. This approach aims to integrate the school harmoniously within the existing community framework while fulfilling educational needs locally. It was also clarified that 95% of the student population comes from Karen, 50% of the staff comes from and that 100% of the suppliers come from Karen

g) Suggestions by Local Community Members

Local community members gave suggestions that would be of benefit to the local area residents and work towards ensuring environmental conservation and sustainable development which include:

- Road improvements to ease traffic congestion around the school
- Elaborate design and implementation of drainage systems
- The proponent should design a good solid and liquid waste disposal system to protect the environment from pollution.
- Developing an efficient sewerage system
- Ensure safety of workers, students and passers by
- Effective implementation of noise management procedures by the institution
- Ensure proper landscaping of the undeveloped areas
- Beef up security before in and around the facility
- Proponent should adhere to building standards during construction
- The locals to be given priority in employment, especially the youth, especially during operation

Public consultation sheets, minutes and meeting attendance sheets are attached in the appendices for your review

6. CHAPTER SIX: PROJECT ALTERNATIVES

This chapter examines various alternatives for the Nairobi Waldorf School Trust project, encompassing site options, transportation alternatives, materials and technology scales, as well as solid waste and wastewater management options. The analysis involves studying design alternatives and evaluating them based on environmental costs and benefits, technology feasibility, capital investments, and operational requirements, among other factors.

6.1 The Proposed Development Alternative

Under the proposed development alternative, the Nairobi Waldorf School Trust would obtain an ESIA License. NEMA would approve the school's construction, provided all environmental measures are rigorously followed during both the construction and operational phases. This alternative entails the final proposal by the school, incorporating NEMA regulations and procedures to the fullest extent feasible.

6.2 Relocation Option

Relocation to a different site is not viable for the Nairobi Waldorf School Trust project at this time, as no alternative site is currently available. The search for suitable land capable of accommodating the project's scale and requirements, along with completing official transactions, typically extends over three to five years. Additionally, design and planning according to site conditions would require an additional two years. Any expenses incurred in this process would constitute a significant financial loss. Given these challenges, project relocation is not feasible and would adversely affect the local economy and discourage potential investors.

Furthermore, the school is already in operation at the proposed site and only requires the addition of a few structures to enhance the learning experience of the students within the school. Having the structures in another location would beat the purpose.

6.3 No Project Alternative

The No Project option entails maintaining the status quo, resulting in minimal environmental interference but limiting socio-economic benefits. This alternative is least preferred due to:

i. Unchanged economic conditions for locals.
ii. Underutilization of local skills.
iii. Reduced local, national, and international interactions.
iv. Lack of employment opportunities and potential increase in poverty and crime.
v. Insufficient school services.
vi. Discouragement of future similar developments.
vii. Slow development and improvement.

6.4 Analysis of Alternative Construction Materials and Technology

The Nairobi Waldorf School Trust project will utilize modern, locally and internationally accepted materials prioritizing public health, safety, security, and environmental aesthetics. Equipment with energy and water-saving capabilities will be prioritized without compromising on cost or availability.

Rainwater harvesting will be employed for construction activities and non-domestic use, while minimizing the use of timber to conserve natural resources.

6.5 Waste Water Management Options

Several wastewater management technologies were considered:

6.5.1 Alternative One - Use of Stabilization Ponds/Lagoons

This method involves a series of ponds/lagoons where biological processes treat wastewater before discharge. However, its space requirements and potential odor issues make it unsuitable for the project area.

6.5.2 Alternative Two - Constructed/Artificial Wetland

A cost-effective method using wetland plants to filter toxins, though it requires space and longer operational timelines. This is also unsuitable for the proposed site.

6.5.3 Alternative Three - Connection to the Sewer Line System

This alternative is not viable because there is no public sewer nearby.

6.5.4 Alternative Four - Use of Communal Septic Tanks

Involves underground tanks for wastewater storage, with associated challenges like regular maintenance and space requirements, making it unsuitable for the project's scale.

6.5.5 Alternative Five - Waste Water Treatment Plant

The most viable option involves constructing a treatment plant using chemicals to achieve acceptable effluent standards. Despite initial costs, it offers long-term efficiency and environmental benefits through sludge composting and water quality management.

6.5.6 Septic Tank System

This is the easiest method of waste water treatment. This is what the school has implemented is utilizing. The school is advised to ensure that the sewer exhausters are fully licensed by NEMA to carry out such activities. We encourage the school to go ahead and install a waste water treatment plant to enable utilization of the treated waste water in landscaping.

6.6 Solid Waste Management Alternatives

An integrated solid waste management system will prioritize waste reduction, recycling, and composting, followed by incineration and landfilling as last resorts. The proponent will also engage a NEMA licensed waste collector to collect and dispose waste from the facility.

6.7 Water Supply

Given water scarcity, the Nairobi Waldorf School Trust project explored sustainable water supply options:

6.7.1 Alternative One - Rain Water Harvesting

Collecting rainwater for various purposes, including toilet flushing and cleaning is a very viable option, hence the school is encouraged to install facilities enabling it harvest and conserve rain water from its roofs.

6.7.2 Alternative Two - Tanker/Bowsers Water Supply

Temporary water supply from licensed companies, though costly and unreliable for long-term use. This is the current source f water supply for the school.

6.7.3 Alternative Three - Drilling of a Borehole

This is a viable alternative, but the area is dominated by too many boreholes.

6.7.4 Alternative Four - Combined Water Supply

The site is connected to the municipal water supply system. However, the school is encouraged to ensure rainwater harvesting as its primary source of water.

6.8 ESIA with or without ESMP

6.8.1 Without ESMP

Assumes proceeding without environmental management plans, which would significantly impact the environment negatively, making it an unrealistic scenario in today's sustainable development context.

6.8.2 With ESMP

Implementation of environmental management strategies will mitigate adverse impacts, enhance environmental quality, and ensure sustainable development for the Nairobi Waldorf School Trust project.

6.9 Green Building Alternative

In response to climate change and adaptation, green building in Kenya or green construction is beginning to catch on, albeit slowly in Kenya's construction scene. Developers are placing an emphasis on producing houses that are environmentally and resource friendly. It is a rather misunderstood term, with some painting their houses green to keep in sync… building green entails constructing and managing buildings economically, with an emphasis on reducing environmental burdens and conserving resources. It involves the choice of materials and products used to achieve the best performance at building level. For it to be effective, it should encompass the whole building cycle, from design, construction, operation, maintenance and daily running of the building. Several assessments in relation to green building in Kenya have identified that substantial savings in cost, embodied carbon, electricity and water consumption are possible in housing currently being built in Kenya making it more green and affordable.

The current Nairobi climate and its surrounding areas are ideal for the design of energy efficient housing. A well-designed building i.e. orientation and careful position of openings and selecting building materials will minimise the requirement of lighting and heating in the house saving electricity or other fuels. Currently there is no need for any air-conditioning in Nairobi housing but it shouldn't be forgotten that unchecked construction and poor urban design can often result in higher than normal temperatures so people resort to energy consuming air-conditioning.

The construction technology most prevalent in Nairobi for housing is the Reinforced Cement Concrete (RCC) frame with in-fill stone walls. The intermediary slabs, columns and roofing (constituting the structure of the building), door and window frames, and external/internal walls present the highest potential for savings in embodied energy i.e.: energy used in the production and transport of materials.

6.9.1 Alternatives to Achieving Green Building

The areas of concern may be categorized broadly as follows:

- Proper and efficient use of resources. These include power, water and other sources of energy
- Reducing waste and pollution
- Improving occupant health

For the proposed project, efforts should be put to reduce reliance on the costly fossil fuels. Some of the methods that can be adopted in this include:

i. The Use of Renewable Energy

More houses are powering up using solar panels. The availability of the technology and ease of setting up the panels have gone a long way in encouraging its adoption. The use of biomass (popularly known as biogas) is also gaining a significant foot hold in many homes. This is more so in rural areas, where animal waste is enhanced to produce gas used in powering up. Waste (such as papers, plastics, and so forth) is also being used in an ingenious pilot project in areas of Nairobi and its surrounding to produce heat energy. This has been embraced in these communities as it provides an affordable way to cook and heat water. For the proposed project, it is highly recommended that they embrace the use of renewable energy sources such as solar and wind.

ii. Adoption of Water Harvesting, Treatment and Re-Use

Large projects such as the proposed one should adopt water treatment and re-use to cut on costs. With demanding clientele who want green compounds all year round, this technology is quite handy. The used water is collected and treated in collection tanks placed within the project sites. This water is then re-used for irrigation of lawns and also in flushing toilets. Hence this calls for the adoption of sewage treatment systems such as the bio-box (a waste water

treatment plant). In addition, water harvesting should also be taken more seriously. Methods include tanks and also water pans in areas having space. Trenches in gardens are also dug up with the sole intention of trapping run-off water. Hence, the proposed project should entail rain water harvesting without failure.

iii. The Use of Plants or Vegetation

Plants can be used as water towers to aid in replenishing ground water. Homes in hot areas are advised to adopt plants to keep the temperatures down. The proposed project has plans to keep most of the vegetation on site as well as establish dense vegetation cover around and within its compound without failure. This is also part of its camouflage.

iv. Adoption Of Natural Lighting And Ventilation

Strategic building of windows and porches goes a long way in enhancing natural lighting. Sun roofs are also becoming a common feature in many homes, allowing much sunlight into the rooms. These are just some of the few methods that could be adopted in going green in building the proposed project.

7. IDENTIFICATION OF POTENTIAL IMPACTS

7.1 Introduction

Impact assessment is a crucial step in understanding the potential effects of the Nairobi Waldorf School Trust project on the environment, economy, and society. This chapter systematically evaluates the potential impacts of the proposed project across its different phases—construction, operational, and decommissioning. The assessment categorizes the impacts as positive or negative and evaluates their magnitude and duration (short-term or long-term).

7.2 Potential Positive Impacts

7.2.1 Construction Phase

7.2.1.1 Employment Opportunities

There will be job opportunities especially for casual workers. Employment opportunities are beneficial both economically and socially. In the economic sense, it means that abundant unskilled labor will be used in economic production. In the social sense, these young and energetic, otherwise poor people, will be engaged in productive employment rather than remaining idle, which may attract them to social ills like drug abuse and criminal activities.

7.2.1.2 Provision of Market for Construction Materials

The project will require a large supply of construction materials such as cement, stone chips, metals, and sand, most of which will be sourced locally within Nairobi County and surrounding areas. This project provides a ready market for construction material suppliers such as quarrying companies, hardware shops, and individuals with such materials, leading to business growth and enhanced livelihoods for local people.

7.2.1.3 Boost to Surrounding Business Enterprises

The project will employ many people who will need goods and services supplied by local business enterprises. The enterprises within the project area may benefit from an increased customer base from the construction crew. The project will also attract more investments in the area, such as recyclable material collection, catering, and security service companies from the local community.

7.2.1.4 Revenue for Local and National Economy

There will be gains in the local and national economy through the consumption of locally available materials. The consumption of these materials, fuel, oil, and others will attract taxes including VAT, payable to the government.

7.2.1.5 Improved Building Technology/Knowledge Transfer

The proposed school development will introduce modern, eco-friendly building/construction techniques, which will be adopted by locals in the area.

7.2.1.6 Improvement of Standards of Living

The locals who will be employed during the construction phase will have a source of income, improving their living standards and those of their family members.

7.2.2 Operational Phase

7.2.2.1 Job Creation

Employment opportunities are one of the long-term major impacts of the proposed development project, realized after construction and during the operation and maintenance of the proposed development.

This will involve Teachers, administrative staff, security personnel, solid waste management, caretakers, and cleaning services.

7.2.2.2 Increased Security in the Area

With the establishment of the project, cases of insecurity will reduce, as the project will attract more people, deterring ill-minded individuals. Additional security from local firms will also benefit the local community.

7.2.2.3 Emergence of a New Urban Development

Growth of businesses, market centers, and other essential services will be witnessed within the area.

7.2.2.4 Economic Growth

The project is anticipated to generate revenue since activities during the operational phase will contribute to revenue collection by paying relevant taxes and fees. Maintenance services will also require personnel who will pay taxes.

7.2.2.5 Aesthetic Enhancements

The project will result in the beautification of the locality, with a design concept inspired by educational infrastructure interacting with nature, resulting in high-quality environmental standards.

7.2.3 Decommissioning Phase

1. **Creation of Employment and Business Opportunities**

The decommissioning phase will create business opportunities for the contracting company responsible for pulling down the structure and transporting the resultant materials/debris. Moving companies will also benefit from being contracted to move equipment and materials. These activities will create employment opportunities for engineers, demolition experts, landscapers, foremen, supervisors, masons, truck drivers, and crane operators.

7.2.3.1 Income Generation

Decommissioning the project will create recyclable materials and equipment, such as stones, metals, furniture, switchboards, and pumps, generating income even if sold cheaper than new ones.

7.2.3.2 Provision of Cheaper Building Materials

The decommission phase will create recyclable building materials, providing cheaper options for future projects. These materials may also be donated for development projects, promoting development in needed areas.

7.2.3.3 Environmental Conservation

Recycling waste to be used as raw materials in other construction processes reduces the demand for raw materials, thus reducing potential environmental impact.

7.3 Potential Negative Impacts

7.3.1 Construction Phase

7.3.1.1 Dust and Vehicle Emissions

Frequent movement of construction trucks along dirt roads will raise a lot of dust and increase emissions. This will affect the people in the immediate vicinity, commuters, and flora negatively.

7.3.1.2 Noise Pollution

Construction activities will generate noise and vibrations, exceeding permissible levels and impacting the health and safety of workers and nearby residents.

7.3.1.3 Solid Waste and Excavated Material

Major excavation works will generate top-soil waste and other solid wastes, which need proper disposal to avoid environmental contamination.

7.3.1.4 Hazardous Material Spillage

Spillage of lubricants, fuel, cement, and other chemicals during construction may deteriorate soil and water quality.

7.3.1.5 Social Crimes

An influx of construction workers may lead to increased crime rates, competition for limited jobs, and housing.

7.3.1.6 Public Health

Increased population may lead to increased disease vectors and diseases, including COVID-19 and sexually transmitted diseases.

7.3.1.7 Occupational Health and Safety

Construction activities pose various hazards to workers, including physical hazards from equipment, trips and falls, and exposure to dust and noise.

7.3.1.8 Increased Water Demand

Construction operations and workforce will create additional demand for water.

7.3.1.9 Increased Energy Consumption

The project will consume fossil fuels for transport vehicles and machinery, impacting the environment.

7.3.1.10 Increased Traffic Congestion

Trucks carrying construction materials may increase traffic on the road.

7.3.2 Operational Phase

7.3.2.1 Increased Pressure on Existing Infrastructure

The project may increase pressure on existing infrastructure such as roads, water supply systems, and waste handling facilities.

7.3.2.2 Air Pollution

Increased number of vehicles will result in higher exhaust emissions.

7.3.2.3 Water Pollution

Improper management of solid and liquid wastes may cause contamination of water sources.

7.3.2.4 Increased Solid Waste Generation

The operation of the school will generate solid waste which needs to be managed effectively to avoid environmental contamination.

7.3.2.5 Noise Pollution

There is likely of increased noise in the project neighborhood, especially from the students.

7.3.3 Decommissioning Phase

7.3.3.1 Dust and Noise Pollution

Demolition activities will generate dust and noise, affecting nearby residents.

7.3.3.2 Occupational Health and Safety Risks

Workers involved in demolition may face risks of injury from falling debris, machinery, and other hazards.

7.3.3.3 Solid Waste Generation

Demolition will generate a significant amount of solid waste that needs proper disposal.

7.3.3.4 Water Pollution

Improper disposal of demolition waste may lead to contamination of water sources.

7.3.3.5 Displacement of Workers

Demolition may lead to the displacement of workers employed at the facility.

7.4 Impact Analysis

The table below analyzes the potential project impacts based on type, category, affected stakeholders, magnitude and duration, for each phase of the project.

Table 4: impact analysis

Phase	Impact Type	Impact Description	Category	Stakeholders Affected	Magnitude	Period
Construction	**Positive**	Employment opportunities for casual laborers, skilled and unskilled workers	Direct	Local workforce	High	Short-term
	Positive	Provision of market for construction materials	Economic	Material suppliers	Medium	Short-term
	Positive	Boost to surrounding business enterprises	Indirect Economic	Local businesses	Medium	Short-term
	Positive	Revenue for local and national economy	Economic	Government, local economy	High	Short-term
	Positive	Improved building technology/knowledge transfer	Social	Local community	Medium	Long-term
	Positive	Improvement of standards of living	Social	Local workers	High	Short-term
	Negative	Dust and vehicle emissions affecting air quality and health	Environmental, Health	Nearby residents, workers	High	Short-term
	Negative	Noise pollution	Health	Workers, residents	Medium	Short-term
	Negative	Solid waste and excavated material disposal	Environmental	Local community	Medium	Short-term
	Negative	Hazardous material spillage contaminating soil and water	Environmental	Local environment	High	Short-term
	Negative	Social crimes due to influx of workers	Social	Local community	Medium	Short-term
	Negative	Public health risks from increased disease vectors and waste	Health	Local community	High	Short-term
	Negative	Occupational health and safety hazards	Health	Workers	High	Short-term
	Negative	Increased populations of disease vectors	Health	Local community	Medium	Short-term
	Negative	Increased water demand	Environmental	Local water supply	Medium	Short-term
	Negative	Increased energy consumption	Environmental	Natural resources	Medium	Short-term
	Negative	Increased traffic congestion	Social	Local commuters	Medium	Short-term
Operation	**Positive**	Job creation for security personnel, waste management, and service provision	Economic	Local workforce	High	Long-term
	Positive	Increased security in the area	Social	Local community	Medium	Long-term
	Positive	Emergence of new urban development	Economic	Local businesses, residents	High	Long-term
	Positive	Increased property value	Economic	Property owners	High	Long-term
	Positive	Economic growth through revenue generation	Economic	Government, local economy	High	Long-term
	Positive	Aesthetic enhancements	Social	Local community	Medium	Long-term
	Negative	Increased pressure on existing infrastructure	Social	Local community	High	Long-term
	Negative	Noise from student activities	Social	Immediate neighbors	Medium	Long-term
	Negative	Air pollution from increased vehicle emissions and poor waste management	Environmental	Local environment	Medium	Long-term

	Negative	Water pollution from improper waste management	Environmental, Health	Local environment	Medium	Long-term
	Negative	Insecurity/social crime from increased population and informal settlements	Social	Local community	Medium	Long-term
	Negative	Solid waste generation	Environmental	Local environment	Medium	Long-term
	Negative	Increased electricity consumption	Environmental	Natural resources	Medium	Long-term
	Negative	Increased water demand	Environmental	Local water supply	Medium	Long-term
Decommissioning	**Positive**	Creation of employment and business opportunities for decommissioning activities	Economic	Local workforce, businesses	Medium	Short-term
	Positive	Income generation from recyclable materials	Economic	Local businesses, economy	Medium	Short-term
	Positive	Provision of cheaper building materials through recycling	Economic	Future projects, community	Medium	Short-term
	Positive	Environmental conservation through reduced demand for raw materials	Environmental	Local environment	Medium	Short-term
	Negative	Solid waste generation from demolition	Environmental	Local environment	High	Short-term
	Negative	Dust emission during demolition	Health	Demolition staff, residents	High	Short-term
	Negative	Noise and vibration during demolition	Health	Local community	High	Short-term
	Negative	Reduced or loss of positive impacts from project operation	Economic, Social	Local community, economy	High	Long-term

7.5 Climate Change Risks and Vulnerability Assessment for the Proposed Project

7.5.1 Introduction

Climate change poses significant risks to infrastructure projects worldwide, with effects including increased temperatures, altered precipitation patterns, and more frequent extreme weather events. For the proposed Nairobi Waldorf School Trust project, assessing these risks and the corresponding vulnerabilities is crucial to ensure resilience and sustainability. This chapter provides a detailed analysis of climate change risks and vulnerabilities associated with the project, alongside recommended mitigation and adaptation strategies.

7.5.2 Methodology

The table below summarizes the methodology employed to achieve climate change risks and vulnerabilities assessment in our ESIA study

Table 5: Summary of the methodology employed to achieve climate change risks and vulnerabilities assessment

ESIA Stage	Activities	Climate Change Risks and Vulnerabilities Assessment
1. Screening	Determine whether the project requires a full ESIA.	Identify potential climate risks based on project location and preliminary design. Assess whether climate change factors necessitate a full ESIA.
2. Scoping	Define the scope and focus of the ESIA.	Integrate climate change considerations into the ESIA scope. Identify key climate hazards, impacts, and stakeholders for detailed assessment.
3. Baseline Data Collection	Gather baseline environmental and social data.	Collect historical and current climate data. Establish baseline climate conditions (temperature, precipitation, extreme weather events) and trends.
4. Impact Assessment	Assess potential impacts of the project on the environment and society.	Evaluate how projected climate changes could exacerbate or alter identified impacts. Assess project vulnerabilities to climate hazards (e.g., flooding, heat).
5. Mitigation and Adaptation Planning	Develop measures to mitigate negative impacts and enhance project resilience.	Propose climate change mitigation measures (e.g., energy efficiency, renewable energy use). Develop adaptation strategies to enhance resilience (e.g., flood defenses, heat-resistant materials).
6. Public	Engage stakeholders and the	Include discussions on climate change risks and proposed adaptation

Consultation & Participation	public in the ESIA process.	measures. Gather stakeholder input on climate concerns and suggested solutions.
7. Reporting	Document the ESIA findings and recommendations.	Include a dedicated section on climate change risks, vulnerabilities, and adaptation/mitigation measures. Provide detailed analysis and proposed actions.
8. Review and Decision Making	Review ESIA report and make decisions on project approval and conditions.	Ensure climate change considerations are addressed in the decision-making process. Review the adequacy of proposed adaptation and mitigation measures.
9.Implementation and Monitoring	Implement the project and monitor environmental and social impacts.	Monitor climate variables and project resilience measures. Adjust strategies based on real-time climate data and impact monitoring results.
10. Post-Project Evaluation	Evaluate the project's performance and lessons learned.	Assess the effectiveness of climate adaptation and mitigation measures. Document lessons learned for future projects.

7.5.3 Overview of Climate Change Impacts

Assessing and addressing climate change risks and vulnerabilities are essential for the successful implementation and sustainability of the Nairobi Waldorf School Trust project. By understanding the potential impacts and incorporating mitigation and adaptation strategies, the project can enhance its resilience, ensuring the safety and well-being of its occupants and the longevity of its infrastructure. This proactive approach will also contribute to broader climate resilience goals and set a positive example for future developments in the region. Climate change impacts that are pertinent to the proposed project include:

a) **Temperature Increases**: Higher temperatures can affect building materials, increase energy consumption for cooling, and impact the comfort of occupants.
b) **Altered Precipitation Patterns**: Changes in rainfall can lead to increased flood risks, water scarcity, and effects on landscaping and green spaces.
c) **Extreme Weather Events**: More frequent and severe storms, droughts, and heat waves can directly threaten infrastructure and disrupt project timelines.
d) **Sea-Level Rise**: Although not directly applicable to inland Nairobi, sea-level rise can indirectly affect freshwater resources.

7.5.4 Climate Change Risks to the Proposed Project

7.5.4.1 Construction Phase Risks

- **Heat Stress on Workers**: Higher temperatures can lead to heat stress among construction workers, reducing productivity and increasing health risks.
- **Flooding and Waterlogging**: Changes in precipitation patterns can cause flooding and waterlogging at the construction site, delaying project timelines and increasing costs.
- **Material Degradation**: Increased Precipitation, temperatures, and UV radiation can accelerate the degradation of construction materials, impacting the quality and durability of buildings.

7.5.4.2 Operational Phase Risks

- **Increased Cooling Demand**: Higher temperatures are likely to increase cooling demand, leading to higher energy consumption and operational costs.
- **Water Scarcity**: Changes in rainfall patterns and potential drought conditions can impact the availability of water for daily operations, landscaping, and other needs.
- **Infrastructure Damage**: Extreme weather events such as heavy rains, storms, and winds can damage buildings, landscaping, and other infrastructure, leading to increased maintenance and repair costs.
- **Health Risks**: Increased temperatures and changes in air quality can pose health risks to students, staff, and visitors, affecting their well-being and productivity.

7.5.4.3 Decommissioning Phase Risks

- **Increased Waste Management Challenges**: Extreme weather events during decommissioning can complicate waste management efforts, including the transport and disposal of materials.

- **Health and Safety Risks**: Decommissioning activities during extreme weather conditions can pose health and safety risks to workers.

7.5.5 Vulnerability Assessment

The vulnerability of the proposed project to climate change impacts depends on several factors, including location, design, materials used, and the capacity to implement adaptive measures. Key vulnerability aspects include:

7.5.5.1 Location and Exposure

The project's location in Nairobi makes it susceptible to altered precipitation patterns and temperature increases. Local topography and drainage systems will influence the severity of flooding and waterlogging risks.

7.5.5.2 Sensitivity of Building Materials and Design

The choice of building materials and design will determine sensitivity to temperature changes and extreme weather events. Materials sensitive to heat, UV radiation, or water damage will increase the project's vulnerability.

7.5.5.3 Adaptive Capacity

The ability to implement adaptive measures, such as advanced cooling systems, efficient water management strategies, and resilient infrastructure designs, will play a critical role in reducing the project's vulnerability to climate change impacts.

7.5.6 Mitigation and Adaptation Strategies

To mitigate and adapt to climate change risks, the following strategies should be considered:

7.5.6.1 Mitigation Strategies

I. **Energy Efficiency**: Implement energy-efficient designs and technologies to reduce cooling demand and operational costs.
II. **Sustainable Materials**: Use sustainable and resilient building materials that can withstand high temperatures and extreme weather conditions.
III. **Green Building Practices**: Incorporate green building practices, such as green roofs and walls, to enhance the building's resilience and reduce heat absorption.

7.5.6.2 Adaptation Strategies

I. **Water Management**: Develop efficient water management systems, including rainwater harvesting, efficient irrigation, and drought-resistant landscaping.
II. **Flood Protection**: Design and construct adequate drainage systems to manage increased rainfall and prevent waterlogging and flooding.
III. **Heat Mitigation**: Implement passive cooling strategies, such as natural ventilation, shading, and reflective materials, to reduce indoor temperatures.
IV. **Emergency Preparedness**: Develop emergency preparedness plans for extreme weather events, including evacuation procedures and emergency response measures.

8. PROPOSED MITIGATION MEASURES

8.1 Introduction

The proponent of the proposed project acknowledges the fact that the project activities will have some impacts on the biophysical environment, health and safety of its employees and members of the public, and socio-economic wellbeing of the local residents. Thus, the main focus will be on reducing the negative impacts and maximizing the positive impacts associated with the project activities through a programme of continuous improvement. An ESMP is developed to assist the proponent in mitigating and managing the potential environmental and social impacts associated with the life cycle of the project.

8.2 Construction Phase

8.2.1 Air quality

Controlling dust during construction is useful in minimizing nuisance conditions. It is recommended that a standard set of feasible dust control measures be implemented for all construction activities. Emissions of other contaminants (NOx, CO2, SOx, and diesel related PMB10B) that would occur in the exhaust from heavy equipment are also included. The proponent is committed to implementing measures that shall reduce air quality impacts associated with construction.

All personnel working on the project will be trained prior to starting construction on methods for minimizing negative air quality impacts during construction. This means that construction workers will be trained regarding the minimization of emissions during construction. Specific training will be focused on minimizing dust and exhaust gas emissions from heavy construction vehicles. Construction vehicle drivers will be under strict instructions to minimize unnecessary trips, and minimize idling of engines.

Dust emissions will be controlled by the following measures:

- Watering all active construction areas as and when necessary to lay dust.
- Cover all trucks hauling soil, sand and other loose materials or require all trucks to maintain at least two feet of freeboard.
- Apply water when necessary, or apply (non-toxic) dust/soil stabilizers on all unpaved access roads, parking areas and staging areas at construction sites.
- Use of dust nets during construction of buildings.
- Sweep daily (with physical sweepers) all paved access roads, parking areas & staging areas at construction sites

The following mitigation measures are recommended to control effects of project on air quality and human health:

- Provide personnel with PPE&C such as dust masks, boots among others. Mechanism should be put in place to ensure PPE&C are specific for the activities at hand and are always worn within the project sites;
- The stockpiles of earth generated during construction works, unpaved access roads and areas used for handling fine construction materials should be palliated with water regularly in order to suppress evolution of particles;
- All machinery and equipment should be maintained in good working condition in order to minimize emissions to acceptable standards;
- Train construction and delivery truck drivers on pre-cautionary measures that enable curb emissions for example advise on techniques to reduce dust evolution especially when driving in areas of dense human settlement or nearing the project site to avoid creating dusty conditions; techniques to conserve fuel and reduce emission by switching off the engines when vehicles are idling;
- Vehicle idling time shall be minimized,
- Alternatively fueled construction equipment shall be used where feasible in order to reduce pollutants,
- No burning of materials should be permitted at the project site;
- Limit traffic movement within the earmarked project areas.

This will also be achieved through proper planning of transportation of materials to ensure that vehicle fills

are increased in order to reduce the number of trips done or the number of vehicles on the road.

8.2.2 Minimize The Effects Of Noise And Vibrations Emitted From The Site

The significance of noise impacts depends on whether the project would increase noise levels above the existing ambient levels by introducing new sources of noise. Noise impacts would be considered significant if the project would result in the following:

- Exposure of persons to, or generation of, noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies,
- Exposure of persons to, or generation of, excessive ground-borne vibration or ground-borne noise levels,
- A substantial permanent increase in ambient noise levels (more than five dBA) in the project vicinity above levels existing without the project,
- A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project.

The proponent shall put in place several measures that will mitigate noise pollution arising during the construction phase. The following noise-suppression techniques will be employed to minimize the impact of temporary construction noise at the project site;

- Install portable barriers to shield compressors and other small stationary equipment where necessary,
- Use quiet equipment (i.e. equipment designed with noise control elements),
- Co-ordinate with relevant agencies regarding all construction activities in the nearby residential areas,
- Planning activities in consultation with local communities so that activities with the greatest potential to generate noise are planned during periods of the day that will result in least disturbance,
- Using noise control devices, such as temporary noise barriers and deflectors for impact and blasting activities, and exhaust muffling devices for combustion engines,
- Avoiding or minimizing project transportation through community areas,
- Install sound barriers for pile driving activity,
- Limit pickup trucks and other small equipment to a minimum idling time and observe a common-sense approach to vehicle use, and encourage workers to shut off vehicle engines whenever possible,
- Construction/Demolition works should be done during the day when people are away and also the outside environment is also noisy,
- Adhere to the Environmental Management and Coordination (Noise and Excessive Vibration Pollution) (Control) Regulations, 2009 regarding noise limits at the workplace.

8.2.3 Minimization of Construction Waste

It is recommended that construction waste be recycled or reused to ensure that materials that would otherwise be disposed of as waste are diverted for productive uses. In this regard, the proponent is committed to ensuring that construction materials left over at the end of construction will be used in other projects rather than being disposed of. In addition, damaged or wasted construction materials including plumbing and lighting fixtures, will be recovered for refurbishing and use in other projects. Such measures will involve the sale or donation of such recyclable/reusable materials to construction companies, local community groups, institutions and individual residents or homeowners.

The proponent shall put in place measures to ensure that construction materials requirements are carefully budgeted and to ensure that the amount of construction materials left on site after construction is kept minimal.

It is further recommended that the proponent should consider the use of recycled or refurbished construction materials where feasible. Purchasing and using once-used or recovered construction materials will lead to financial savings and reduction of the amount of construction debris disposed of as waste.

Additional recommendations for minimization of solid waste during construction of the project include:

- Use of durable, long- lasting materials that will not need to be replaced as often, thereby reducing the amount of construction waste generated over time
- Provision of facilities for proper handling and storage of construction materials to reduce the amount of

waste caused by damage or exposure to the elements

- Purchase of perishable construction materials such as paints incrementally to ensure reduced spoilage of unused materials
- Use of building materials that have minimal packaging to avoid the generation of excessive packaging waste
- Use of construction materials containing recycled content where possible and in accordance with accepted standards.

8.2.4 Solid Waste and Excavated Material

Cement bags, containers and other packaging materials are likely to be produced during the construction phase. Materials from excavation like debris and rocks will be generated. If these materials are not recycled or put into good use, they will be nuisance to the environment.

Proposed Mitigations Measures

- Soil and earth excavated wastes to be used for landscaping.
- Plant matter including grass and shrubs disposed of in appropriate locations without compromising the environment and community at the recipient areas,
- Waste materials should be segregated/ separated i.e. Scrap metals, wood, non- biodegradable, tins and cans etc. and recycled where possible.
- The chips waste and fines should be reduced at source by sound design and operations
- Skips and bins should be strategically placed within the construction site. The skips and bins at the construction site should be emptied regularly to prevent overfilling.
- Disposal of the contents of the skips and bins should be done at an approved disposal site and by a NEMA licensed waste handler.
- Provide portable sanitary conveniences for the construction workers for control of sewage waste. A ratio of approximately 15 workers per chemical toilet should be used.

8.2.5 Worker Accidents And Hazards When Handling Hazardous Materials And Wastes

Adequate collection and storage of hazardous waste on site and safe transportation to the disposal sites and disposal methods at designated area shall be provided. In addition, the proponent is committed to adherence to the occupational health and safety rules and regulations stipulated in Occupational Health and Safety Act, 2007. In this regard, the proponent is committed to provision of appropriate personal protective equipment, as well as ensuring a safe and healthy environment for construction workers as outlined in the ESMP.

8.2.6 Controlling Hazardous Spillage

The proponent will control the dangers of oil, grease and fuel spills during construction by maintaining the machinery in specific areas designed for this purpose. Machinery site repair will be discouraged and repair work restricted only to approved garages to avoid pollution from oil, grease and fuel. Other measures to be taken include;

- Providing adequate secondary containment for fuel storage tanks and for the temporary storage of other fluids such as lubricating oils and hydraulic fluids,
- Using impervious surfaces for refuelling areas and other fluid transfer areas,
- Training workers on the correct transfer and handling of fuels and chemicals and the response to spills,
- Providing portable spill containment and clean up equipment on site and training in the equipment deployment.

8.2.7 Security

The proponent should integrate both physical and technological security solutions to provide advanced security surveillance system that include controlled ingress and egress into construction site. This includes CCTV cameras that are linked to a response unit and private security. The project is inclusive of a security unit. A risk analysis should be carried out and a security master plan designed.

8.2.8 Public Health, Safety and Awareness

Public health and safety at the proposed site should be ensured throughout the construction period. Creation of awareness for the same should also be done on a regular basis. The recommendations for public health and safety include the following.

- The contractor should provide a small section of the construction site with a shed and a water stand where the food can be served to the construction workers to promote hygiene and health of the employees.
- A fully equipped first aid kit should be provided at the site.
- The contractor must have workmen's compensation cover as required by law (The Work Injury Benefits Act), as well as relevant ordinances, regulation and union's agreements.
- The workers, immediate neighbour and other stakeholders should be sensitized on the dangers and risk associated with the construction works for enhanced self- responsibility on personal safety.
- The proponent should ensure that the work site and buildings are fitted with safety facilities including fire detectors, firefighting equipment, fire exits, adequate access and buffer between the premises.
- Disabled access features and safety signage should be placed strategically around and within the buildings.
- Appropriate sanitation conveniences should be provided at the site as required in the OSHA, 2007 and echoed in the Public Health Act.

8.2.9 Community Health and Safety

Projects should implement risk management strategies to protect the community from physical, chemical, or other hazards associated with sites under construction. Risks may arise from inadvertent or intentional trespassing, including potential contact with hazardous materials, contaminated soils and other environmental media, buildings that are vacant or under construction, or excavations and structures which may pose falling and entrapment hazards. Risk management strategies may include:

- Restricting access to the site, through a combination of institutional and administrative controls, with a focus on high risk structures or areas depending on site-specific situations, including fencing, signage, and communication of risks to the local community,
- Removing hazardous conditions on construction sites that cannot be controlled effectively with site access restrictions, such as covering openings to small confined spaces, ensuring means of escape for larger openings such as trenches or excavations, or locked storage of hazardous materials.

8.2.10 Occupational Health and Safety

a) Over-exertion

Over-exertion, and ergonomic injuries and illnesses, such as repetitive motion, over-exertion, and manual handling, are among the most common causes of injuries in construction sites. Recommendations for their prevention and control include:

- Training of workers in lifting and materials handling techniques in construction projects, including the placement of weight limits above which mechanical assists or two-person lifts are necessary,
- Planning work site layout to minimize the need for manual transfer of heavy loads,
- Selecting tools and designing work stations that reduce force requirements and holding times, and which promote improved postures, including, where applicable, user adjustable work stations,
- Implementing administrative controls into work processes, such as job rotations and rest or stretch breaks

b) Slips and Falls

Slips and falls on the same elevation associated with poor housekeeping, such as excessive waste debris, loose construction materials, liquid spills, and uncontrolled use of electrical cords and ropes on the ground, are also among the most frequent cause of lost time accidents at construction sites. Recommended methods for the prevention of slips and falls from, or on, the same elevation include:

- Implementing good house-keeping practices, such as the sorting and placing loose construction materials or demolition debris in established areas away from foot paths,

- Cleaning up excessive waste debris and liquid spills regularly,
- Locating electrical cords and ropes in common areas and marked corridors,
- Use of slip retardant footwear.

c) Work at Heights

Falls from elevation associated with working with ladders, scaffolding, and partially built or demolished structures are among the most common cause of fatal or permanent disabling injury at construction or decommissioning sites. If fall hazards exist, a fall protection plan should be in place which includes one or more of the following aspects, depending on the nature of the fall hazard;

- Training and use of temporary fall prevention devices, such as rails or other barriers able to support a weight of 200 pounds, when working at heights equal or greater than two meters or at any height if the risk includes falling into operating machinery, into water or other liquid, into hazardous substances, or through an opening in a work surface,
- Training and use of personal fall arrest systems, such as full body harnesses and energy absorbing lanyards able to support 5000 pounds, as well as fall rescue procedures to deal with workers whose fall has been successfully arrested. The tie in point of the fall arresting system should also be able to support 5000 pounds,
- Use of control zones and safety monitoring systems to warn workers of their proximity to fall or when in hazard zones, as well as securing, marking, and labelling covers for openings in floors, roofs, or walking surfaces

d) Struck by Objects

Construction activities may pose significant hazards related to the potential fall of materials or tools, as well as ejection of solid particles from abrasive or other types of power tools which can result in injury to the head, eyes, and extremities. Techniques for the prevention and control of these hazards include:

- Using a designated and restricted waste drop or discharge zones, and/or a chute for safe movement of wastes from upper to lower levels,
- Conducting sawing, cutting, grinding, sanding, chipping or chiselling with proper guards and anchoring as applicable,
- Maintaining clear traffic ways to avoid driving of heavy equipment over loose scrap,
- Use of temporary fall protection measures in scaffolds and out edges of elevated work surfaces, such as hand rails and toe boards to prevent materials from being dislodged,
- Evacuating work areas during blasting operations, and using blast mats or other means of deflection to minimize fly rock or ejection of demolition debris if work is conducted in proximity to people or structures,
- Wearing appropriate PPE, such as safety glasses with side shields, face shields, hard hats, and safety shoes.

e) Moving Machinery

Vehicle traffic and use of lifting equipment in the movement of machinery and materials on a construction site may pose temporary hazards, such as physical contact, spills, dust, emissions and noise. Heavy equipment operators have limited fields of view close to their equipment and may not see pedestrians close to the vehicle. Center-articulated vehicles create a significant impact or crush hazard zone on the outboard side of a turn while moving. Techniques for the prevention and control of these impacts include:

- Planning and segregating the location of vehicle traffic, machine operation, and walking areas, and controlling vehicle traffic through the use of one-way traffic routes, establishment of speed limits, and on-site trained flag-men wearing high- visibility vests or outer clothing covering to direct traffic,
- Ensuring the visibility of personnel through their use of high visibility vests when working in or walking through heavy equipment operating areas, and training of workers to verify eye contact with equipment operators before approaching the operating vehicle,
- Ensuring moving equipment is outfitted with audible back-up alarms,
- Using inspected and well-maintained lifting devices that are appropriate for the load, such as cranes, and securing loads when lifting them to higher job-site elevations.

f) Dust

- Dust suppression techniques should be implemented, such as applying water or non-toxic chemicals to minimize dust from vehicle movements,
- PPE, such as dusk masks, should be used where dust levels are excessive.

g) Confined Spaces and Excavations

Examples of confined spaces that may be present in construction sites include: silos, vats, hoppers, utility vaults, tanks, sewers, pipes, and access shafts. Ditches and trenches may also be considered a confined space when access or egress is limited. The occupational hazards associated with confined spaces and excavations in construction and decommissioning sites should be prevented according to the following recommendations:

- Controlling site-specific factors which may contribute to excavation slope instability including, for example, the use of excavation dewatering, side-walls support, and slope gradient adjustments that eliminate or minimize the risk of collapse, entrapment, or drowning,
- Providing safe means of access and egress from excavations, such as graded slopes, graded access route, or stairs and ladders,
- Avoiding the operation of combustion equipment for prolonged periods inside excavations areas where other workers are required to enter unless the area is actively ventilated.

h) Other Site Hazards

Construction sites may pose a risk of exposure to dust, chemicals, hazardous or flammable materials, and wastes in a combination of liquid, solid, or gaseous forms, which should be prevented through the implementation of project specific plans and other applicable management practices, including:

- Use of specially trained personnel to identify and remove waste materials from tanks, vessels, processing equipment or contaminated land as a first step in activities to allow for safe excavation, construction, dismantling or demolition

8.2.11 Worker Accidents During Construction And Operation

Project management will provide first aid and possibly primary health care services to staff and crew. Emergency and serious cases can be sent to the most accessible clinics and hospitals. Workers accidents especially in deep trenching operations and other confined spaces shall be mitigated by enforcing adherence to safety procedures and preparing contingency plan for accident response in addition safety education and training shall be emphasized.

8.2.12 Disease Prevention

a) Possible exposure of workers to diseases

Possible exposure of workers to diseases from building materials at construction site shall be mitigated by occupational health and safety standards enforcement as required in the OSHA, 2007.

b) Communicable Diseases

Communicable diseases pose a significant public health threat worldwide. Health hazards typically associated with large development projects are those relating to poor sanitation and living conditions, sexual transmission and vector-borne infections. Communicable diseases of most concern during the construction phase due to labour mobility are sexually- transmitted diseases, such as HIV/AIDS. Recognizing that no single measure is likely to be effective in the long term, successful initiatives typically involve a combination of behavioural and environmental modifications. Recommended interventions at the project level include;

- Providing surveillance and active screening and treatment of workers,
- Providing treatment through standard case management in on-site or community health care facilities. Ensuring ready access to medical treatment, confidentiality and appropriate care, particularly with respect to migrant workers,
- Promoting collaboration with local authorities to enhance access of workers' families and the community to

public health services and promote immunization.

c) Vector-Borne Diseases

Reducing the impact of vector-borne disease on the long-term health of workers is best accomplished through implementation of diverse interventions aimed at eliminating the factors that lead to disease. Project sponsors, in close collaboration with community health authorities, can implement an integrated control strategy for mosquito and other arthropod- borne diseases that might involve:

- Prevention of larval and adult propagation through sanitary improvements and elimination of breeding habitats close to human settlements,
- Elimination of unusable impounded water,
- Increase in water velocity in natural and artificial channels,
- Implementation of integrated vector control programs,
- Promoting use of repellents, clothing, netting, and other barriers to prevent insect bites,
- Use of chemoprophylaxis drugs by non-immune workers and collaborating with public health officials to help eradicate disease reservoirs,
- Monitoring and treatment of circulating and migrating populations to prevent disease reservoir spread,
- Collaboration and exchange of in-kind services with other control programs in the project area to maximize beneficial effects,
- Educating project personnel and area residents on risks, prevention, and available treatment,
- Monitoring communities during high-risk seasons to detect and treat cases,
- Distributing appropriate education materials,
- Following safety guidelines for the storage, transport, and distribution of pesticides to minimize the potential for misuse, spills, and accidental human exposure.

8.2.13 Minimization of Water Use

The proponent shall ensure that water is used efficiently at the site by sensitizing construction staff to avoid irresponsible water use. The proponent will install water- conserving automatic taps and toilets. Moreover, any water leaks through damaged pipes and faulty taps will be fixed promptly by qualified staff.

8.2.14 Waste Water Management

Construction activities may include the generation of sanitary wastewater discharges in varying quantities depending on the number of workers involved. Adequate portable or permanent sanitation and lavatory facilities serving all workers should be provided at all construction sites. Sanitary wastewater in construction and other sites should be well managed and where collection is required to be done by licensed liquid waste handlers/collectors.

8.2.15 Reduction of Energy Consumption

The proponent shall ensure responsible electricity use at the construction site through sensitization of staff to conserve electricity by switching off electrical equipment or appliances when they are not being used. In addition, proper planning of transportation of materials will ensure that fossil fuels (diesel, petrol) are not consumed in excessive amounts. Complementary to these measures, the proponent shall monitor energy use during construction and set targets for reduction of energy use.

8.2.16 Minimize Traffic Related Impacts

Traffic safety should be promoted by all project personnel during disarticulation to and from the workplace, and during operation of project equipment on private or public roads. Prevention and control of traffic related injuries and fatalities should include the adoption of safety measures that are protective of project workers and off road users, including those who are most vulnerable to road traffic accidents.

This can be achieved through proper planning of transportation of materials to ensure that vehicle fills are increased

in order to reduce the number of trips done or the number of vehicles on the road. By implementing the Traffic Management Plan, most of these impacts will be reduced significantly. Recommendations include;

- Warning signs, aimed at both drivers and other road users, to highlight hazards will be erected along the access road
- Demarcated pedestrian crossings will be established at appropriate points where necessary

8.3 Operation Phase

8.3.1 Increased Pressure On The Existing Infrastructure

It is recommended that the proponent should liaise closely with other development partners and Government/Council Departments to upgrade the existing shared facilities including roads, water distribution systems etc. The proponent should as well explore alternative means which are environmentally sound like employing the Green Energy Technologies when and where applicable like the proposed use of Solar Panels in water heating among others. This will rather reduce the over dependence on fossils based energy sources which are arguably presently threatened. The idea of having a borehole to facilitate the construction phase is also a way of relieving an existing water supply system.

8.3.2 Minimisation of Air Pollution

The proponent will ensure a proper solid and liquid waste management system is available and functional to ensure its control. This will ensure nuisance from mismanaged solid and liquid waste such as bad odours and blocked drainages will be non-existent.

8.3.3 Wastewater Management

The proponent will ensure that there are adequate means for handling the large quantities of waste water generated from the residential development. It will also be important to ensure that sewage pipes are not blocked or damaged so that the waste can be delivered to the recommended waste water treatment plant since such vices can lead to release of the effluent, resulting in land and water contamination. Such blockages or damages will be fixed expeditiously. Wastewater shall be disposed in compliance with the provisions of the Environmental Management and Coordination (Water Quality), Regulations 2006.

8.3.4 Noise From Student Activities

To mitigate against noise, the proponent should install artificial hills and plant dense rows of trees and shrubs around the perimeter of the playgrounds. Vegetative buffers can absorb and deflect noise, providing a natural and aesthetically. Alternatively, the proponent can erect acoustic barriers or soundproof fences around the playgrounds and sports fields. These fences can significantly reduce the transmission of noise to neighboring areas.

Other noise management strategies that can be adopted by the school include:

- Design the layout of the school grounds so that noisy play areas are located as far away from residential boundaries as possible. Use buildings to shield noise-sensitive areas.
- Plan game times to avoid early mornings, late evenings, and other times when residents are most likely to be at home and sensitive to noise.
- Select and install play equipment that is designed to produce less noise during use. This includes soft-surface playgrounds that minimize the sound of running and playing.
- Develop and enforce policies that encourage students to be mindful of noise levels during outdoor activities. This can include designated quiet times or areas.
- Regularly communicate with neighboring residents to keep them informed about school activities and listen to their concerns regarding noise. This can help build a cooperative relationship and allow for timely adjustments to schedules or activities.
- As a goodwill gesture, the school could offer to install soundproof windows for the most affected neighboring houses. This can significantly reduce the impact of noise.
- Apply acoustic treatments to the school buildings that face the playgrounds, such as sound-absorbing panels,

to reduce the reflection of noise towards residential areas.

8.3.5 Ensure General Safety

Street lighting to be done and a security lighting system installed. A competent security firm may be engaged to ensure the general safety and security at all times within and around the school development. The proponent should also consider putting up a security plan and policy.

8.3.6 Ensuring Efficient Solid Waste Management

The proponent will be responsible for efficient management of solid waste generated by the project during its operation. In this regard, the proponent will provide waste handling facilities such as waste bins and skips for temporarily holding domestic waste generated at the project. In addition, the proponent will ensure that such are disposed of regularly and appropriately. It is recommended that the proponent puts in place measures to ensure that the students and staff manage their waste efficiently through recycling, reuse and proper disposal procedures.

8.3.7 Ensure Efficient Energy Consumption

The proponent plans to install an energy-efficient lighting system in the proposed development. This will contribute immensely to energy saving during the operational phase of the project. In addition, users of the proposed development will be sensitized to ensure energy efficiency in their operations. To complement these measures, it will be important to monitor energy use during the operation of the proposed project and set targets for efficient energy use.

8.3.8 Ensure Efficient Water Use

The proponent will install water-conserving automatic taps and toilets. Moreover, any water leaks through damaged pipes and faulty taps will be fixed promptly by qualified staff. In addition, the staff and students will be sensitized to use water efficiently. The proponent should also ensure rain water harvesting and conservation from its roofs. This will lead to reduced reliance to water bowsers, the municipal supply as well as reduce on run-off amounts.

8.3.9 Competition In Terms Of Water Resources And Other Utilities

A rain water harvesting system should be put in place to collect water during the rainy season and storing them in either above-ground storage tanks or underground storage containers. This can be used for various uses such as cleaning, gardening or landscaping. The Proponent should also consider drilling a borehole to supplement water supply from the county and supply is inadequate for the school population.

8.4 Decommissioning Phase

8.4.1 Efficient Solid Waste Management

A lot of solid wastes will be generated from the proposed school infrastructure. An integrated solid waste management system is recommendable.

First, the proponent will give priority to Reduction at Source of the materials. This option will demand a solid waste management awareness programme in the management and occupants. Secondly, Recycling, Reuse and compositing of the waste will be the second alternative in priority. This will call for a source separation programme to be put in place. The recyclables will be sold to authorized waste buyers. The third priority in the hierarchy of options is combustion of the waste that is not recyclable in order to produce energy. Finally, sanitary landfilling will be the last option for the proponent to consider.

The proponent will adhere to the Environmental Management and Coordination (Waste Management), Regulations 2006.

8.4.2 Reduction of Dust Concentration

High levels of dust concentration resulting from demolition or dismantling works will be minimized as described in 6.2.1 above

8.4.3 Air Pollution Management

- Open burning of solid wastes, whether hazardous or non-hazardous, is not considered good practice and should be avoided, as the generation of polluting emissions from this type of source cannot be controlled effectively.
- Selectively removing potential hazardous air pollutants from existing infrastructure prior to demolition.

8.4.4 Minimization of Noise and Vibration

Noise abatement measures will be taken within the decommissioning site including scheduling working time. Significant impacts on the acoustic environment will be mitigated as described in 8.2.2 above

8.4.5 Waste Water Management

Decommissioning activities may include the generation of sanitary wastewater discharges in varying quantities depending on the number of workers involved. This will be managed as described in 8.2.14 above

8.4.6 Hazardous Spill Management

The contents of hazardous materials and petroleum-based products in building systems (e.g. PCB containing electrical equipment, asbestos-containing building materials) should be assessed and removed prior to initiation of decommissioning activities, and managing their treatment and disposal.

8.4.7 Occupational Health and Safety

Impacts on Occupational Health and Safety will be mitigated as described in 8.2.10 above

9. CHAPTER NINE: ENVIRONMENTAL AND SOCIAL MANAGEMENT PLANS

The Study report has led to the development of a detailed ESMP for the construction, operational and decommissioning phases of this project. The ESMP will outline the potential safety, health, social and environmental risks associated with the project and detail all the necessary mitigation measures, as well as the persons responsible for their implementation and monitoring. The tables below form the proposed ESMP for the construction, operational and decommissioning phases of this project

The Study ESMP will be used as checklist in future environmental audits of the project continued operation.

9.1 Construction Phase

Table 6: Environmental monitoring/Management plans for the construction phase

Expected Negative Impacts	Recommended Mitigation Measures	Responsible Party	Time Frame	Estimated Cost (KES)
High Demand of Raw materials	-Source building materials from local suppliers who use environmentally friendly processes in their operations.	Resident Project Manager & Contractor	Throughout construction period	Part of the main budget
	-Ensure accurate budgeting and estimation of actual construction material requirements to ensure that the least amount of material necessary is ordered.			
	-Ensure that damage or loss of materials at the construction site is kept minimal through proper storage.			
	-Use of some recycled/refurbished or salvaged materials to reduce the use of raw materials and divert material from landfills.			
Loss of Vegetation	-Specify locations for trucks and equipment, and areas of the site which should be kept free of traffic, equipment, and storage.	Civil Engineer, Architect and Project Manager Landscape specialist	1 month	200, 000.00
	-Designate access routes and parking within the site.			
	-Introduction of more vegetation (trees, shrubs and grass) on open spaces and their maintenance.		Monthly to Annually	
	-Design and implement an appropriate landscaping program to help in re-vegetation of part of the project area after construction. This is to complement the existing one due the disturbance by construction activities	Architect & Landscape specialist	During the beginning phase of the project	
Increased storm water, runoff and soil erosion	-Roof water to be harvested and stored in underground reservoirs for use in cleaning and in the toilets. To ensure the use of such water for the stated purposes, the buildings should be fitted with a dual water distribution system	The Civil Engineer, Mechanical Engineer and Resident Project Manager	During the beginning phase of the project	500, 000.00
	-A storm water management plan that minimizes impervious area infiltration by use of recharge areas and use of detention and/or retention with graduated outlet control structure should be designed.		1 month	100, 000.00
	-Apply soil erosion control measures such as leveling of the project site to reduce run-off velocity and increase infiltration of storm water into the soil.			50, 000.00
	-Ensure that construction vehicles are restricted to existing roads to avoid soil compaction within and around the project site.		Throughout construction period	
	-Ensure that any compacted areas are ripped		2 months	

	to reduce run-off.			
	-Site excavation works to be planned such that a section is completed and rehabilitated before another section begins.	Resident Project Manager	Throughout construction period	200, 000.00
	-Construction of soil-galleys on sloppy sections.			
	-Open drains all interconnected to be provided on site.	Civil Engineer	Throughout construction period	
	-Roof catchments to be used to collect the storm water for some domestic uses e.g. washing of floors and cars			
Increased solid waste generation	-Use of an integrated solid waste management system i.e. through a hierarchy of options: reduction, sorting, re-use, recycling and proper disposal	Project Manager & Contractor	Throughout construction period	200, 000.00
	-Through accurate estimation of the sizes and quantities of materials required, order materials in the sizes and quantities they will be needed, rather than cutting them to size, or having large quantities of residual materials.	Resident Project Manager & Contractor	One-off	
	-Ensure that construction materials left over at the end of construction will be used in other projects rather than being disposed of.		One-off	
	-Ensure that damaged or wasted construction materials including cabinets, doors, plumbing and lighting fixtures, marbles and glass will be recovered for refurbishing and use in other projects			
	-Donate recyclable/reusable or residual materials to local community groups, institutions and individual local residents or home owners.			
	-Use of durable, long-lasting materials that will not need to be replaced as often, thereby reducing the amount of construction waste generated over time	Resident Project Manager & Contractor; Mechanical Engineer & Contractor	Throughout construction period	
	-Provide facilities for proper handling and storage of construction materials to reduce the amount of waste caused by damage or exposure.		One-off	
	-Purchase of perishable construction materials such as paints should be done incrementally to ensure reduced spoilage of unused materials		Throughout construction period	
	-Use building materials that have minimal or no packaging to avoid the generation of excessive packaging waste			
	-Use construction materials containing recycled content when possible and in accordance with accepted standards.			
	-Reuse packaging materials such as cartons, cement bags, empty metal and plastic containers to reduce waste at the site			
	-Dispose waste more responsibly by dumping at designated dumping sites or landfills only.			
	-Waste collection bins to be provided at designated points on site			
	-Private NEMA licensed waste disposal company may be contracted to transport and			

	dispose the solid waste from site			
	-Running educational campaigns amongst workers, e.g. through use of posters, to encourage reuse or recycling of the solid waste			
Dust emission	-Ensure strict enforcement of on-site speed limit regulations	Resident Project Manager & Contractor	Throughout construction period	100, 000.00
	-Avoid excavation works in extremely dry weathers if/and when possible			
	-Sprinkle water on graded access routes when necessary to reduce dust generation by construction vehicles			
	-Personal Protective equipment to be worn			
Exhaust emission	-Vehicle idling time shall be minimized	Resident Project Manager & Contractor	Throughout construction period	50, 000.00
	-Alternatively fueled construction equipment shall be used where feasible; equipment shall be properly tuned and maintained			
	-Sensitize truck drivers to avoid unnecessary racing of vehicle engines at loading/offloading points and parking areas, and to switch off engines at these points			
Noise and vibration	-Sensitize construction vehicle drivers and machinery operators to switch off engines of vehicles or machinery not being used.	Resident Project Manager & Contractor	Throughout construction period	50, 000.00
	-Sensitize construction drivers to avoid gunning of vehicle engines or hooting especially when passing through sensitive areas such as churches, residential areas and hospitals			
	-Ensure that construction machinery are kept in good condition to reduce noise generation			
	-Ensure that all generators and heavy duty equipment are insulated or placed in enclosures to minimize ambient noise levels.			
	-The noisy construction works will entirely be planned to be during day time when most of the neighbors will be at work.			
Increased energy consumption	-Ensure electrical equipment, appliances and lights are switched off when not being used	Resident Project Manager & Contractor	Throughout construction period	Part of the main budget
	-Install energy saving fluorescent tubes at all lighting points instead of bulbs which consume higher electric energy			
	-Ensure planning of transportation of materials to ensure that fossil fuels (diesel, petrol) are not consumed in excessive amounts			
	-Monitor energy use during construction and set targets for reduction of energy use.			
High Water Demand	-Harness rainwater for some domestic uses such as general cleaning, in the toilets & gardening (roof catchment), hence the need for a dual water distribution system within the building	Mechanical Engineer, proponent and Resident Project Manager	Throughout construction period	100, 000.00
	-Promote recycling and reuse of water as much as possible (need for a dual water distribution system within the building)		Throughout construction period	
	-Install water conserving taps that turn-off automatically when water is not being used as well as low flush toilets and waterless urinals		One-off One-off	

	-Install a discharge meter at water outlets to determine and monitor total water usage			
	-Promptly detect and repair water pipe and tank leaks		Throughout construction period	
	-Sensitize staff to conserve water by avoiding unnecessary toilet flushing etc.			
	-Ensuring taps are not running when not in use			
Generation of wastewater	-Provision of means for handling sewage generated by construction workers	Mechanical Engineer & Resident Project Manager	One-off	Part of the main budget
	-Conduct regular checks for sewage pipe blockages or damages since such vices can lead to release of the effluent into the land and water bodies		Throughout construction period	
	-Monitor effluent quality regularly to ensure that the stipulated discharge rules and standards are not violated			
Incidents, accidents and dangerous occurrences.	All construction to be scheduled for when school is not in session.	School management	One-off	-
	-Ensure that provisions for reporting incidents, accidents and dangerous occurrences during construction using prescribed forms obtainable from the local Occupational Health and Safety Office (OHSO) are in place.	Resident Project Manager, Developer & Contractor & Site Safety Officer	Continuous	100, 000.00
	-Enforcing adherence to safety procedures and preparing contingency plan for accident response in addition to safety education and training shall be emphasized.			
	-Ensure that the premises are insured as per statutory requirements (third party and workman's compensation)		Annually	
	-Develop, document and display prominently an appropriate SHE policy for construction works	Resident Project Manager, Developer & Contractor	One-off	
	-Provisions must be put in place for the formation of a Health and Safety Committee, in which the employer and the workers are represented			
	-Ensure that Suitable, efficient, clean, well-lit and adequate sanitary conveniences have been provided for construction workers			
	-Ensure that materials are stored or stacked in such manner as to ensure their stability and prevent any fall or collapse		Continuous	
	-Ensure that items are not stored/stacked against weak walls and partitions			
	-All floors, steps, stairs and passages of the premises must be of sound construction and properly maintained			
	-Securely fence or cover all openings in floors	Resident Project Manager & Contractor	One-off	
	-Ensure that construction workers are not locked up such that they would not escape in case of an emergency		Continuous	
	-All ladders used in construction works must be of good construction and sound material of adequate strength and be properly maintained		One-off	
	-Design suitable documented emergency preparedness and evacuation procedures to		One-off for the design/ regularly	

	be used during any emergency. Such procedures must be tested at regular intervals		for the documentation	
	-Ensure that adequate provisions are in place to immediately stop any operations where there is an imminent and serious danger to health and safety and to evacuate workers			
	-Ensure that the most current emergency telephone numbers posters are prominently and strategically displayed within the construction site			
	-Provide measures to deal with emergencies and accidents including adequate first aid arrangements		Continuous	
Machinery/equipment safety	-Arrangements must be in place for the medical examination of all construction employees before, during and after termination of employment	Resident Project Manager, Developer & Contractor	Continuous	50, 000.00
	-Ensure that machinery, equipment, personal protective equipment, appliances and hand tools used in construction do comply with the prescribed safety and health standards and be appropriately installed maintained and safeguarded		One-off	
	-Ensure that equipment and work tasks are adapted to fit workers and their ability including protection against mental strain		Continuous	
	-All machines and other moving parts of equipment must be enclosed or guarded to protect all workers from injury		One-off	
	-Arrangements must be in place to train and supervise inexperienced workers regarding construction machinery use and other procedures/operations		Continuous	
	-Equipment such as fire extinguishers must be examined by a government authorized person. The equipment may only be used if a certificate of examination has been issued		Continuous	
	-Reports of such examinations must be presented in prescribed forms, signed by the examiner and attached to the general register		Continuous	
occupational health and safety risks during construction period and occupational phase	-Well stocked first aid box which is easily available and accessible should be provided within the premises	Resident Project Manager & Contractor/ proponent/ residents	One-off	100, 000.00
	-Provision must be made for persons to be trained in first aid, with a certificate issued by a recognized body.			
	-Firefighting equipment such as fire extinguishers and hydrant systems should be provided at strategic locations such as stores and construction areas.			
	-Regular inspection and servicing of the equipment must be undertaken by a reputable service provider and records of such inspections maintained		Every 3 months	
	-Signs such as “NO SMOKING” must be prominently displayed within the school, especially in parts where inflammable materials are stored		One-off	
	-Enough space must be provided within the premises to allow for adequate natural			

	ventilation through circulation of fresh air			
	-There must be adequate provision for artificial or natural lighting in all parts the premises in which persons are working or passing			
	-Circuits must not be overloaded		Continuous	
	-Distribution board switches must be clearly marked to indicate respective circuits and pumps		One-off	
	-There should be no live exposed connections		Continuous	
	-Electrical fittings near all potential sources of ignition should be flame proof		One-off	
	-All electrical equipment must be earthed			
	-Develop a suitable system for the safe collection, recycling and disposal of chemical wastes, obsolete chemicals and empty chemical containers to avoid their reuse for other purposes and to eliminate or minimize the risks to safety, health and environment			
	-Ensure that all chemicals used in construction are appropriately labeled or marked and that material safety data sheets containing essential information regarding their identity, suppliers classification of hazards, safety precautions and emergency procedures are provided and are made available to employees and their representatives			
	-Keep a record of all hazardous chemicals used at the premises, cross-referenced to the appropriate chemical safety data sheets		Continuous	
	-There should be no eating or drinking in areas where chemicals are stored or used			
	-Provide workers in areas with elevated noise and vibration levels, with suitable ear protection equipment such as ear muffs		One-off	
	-Ensure that construction workers are provided with an adequate supply of wholesome drinking water which should be maintained at suitable and accessible points.			
	-Ensure that conveniently accessible, clean, orderly, adequate and suitable washing facilities are provided and maintained in within the site			
	-Provision for repairing and maintaining of hand tools must be in place			
	-Hand tools must be of appropriate size and shape for easy and safe use			
	-Height of equipment, controls or work surfaces should be positioned to reduce bending posture for standing workers			
Safety and security	-Ensure general safety and security at all times by providing day and night security guards and adequate lighting within and around the construction site.	Resident Project Manager & Contractor	Continuous	10, 000.00 per month
Oil Spills	A designated garage section of the site fitted with oil trapping equipment to be planned for changes. Such an area will be well protected from contaminating the soil			5, 000.00 per month

Increased Food Supply/demand	-Construction workers will be given breaks to go for lunch	Resident Project Manager & Contractor	Continuous	50, 000.00
	-Onsite canteen to supply food if possible			
Hazardous Material accidents	-Hazardous substance control and emergency response plan that will include preparations for quick and safe cleanup of accidental spills.	The Mechanical Engineer, Resident Project Manager, Contractor & the Developer/The Mechanical Engineer	Continuous	Part of erosion control
	-Hazardous-materials handling procedures to reduce the potential for a spill during construction			
	-Identify areas where refueling and vehicle maintenance activities and storage of hazardous materials, if any, will be permitted			
Vector Borne and Water Borne Disease Incidence	-Complete refuse collection and handling service to be provided	Mechanical Engineer	Continuous	50, 000.00
Possible Exposure of Workers to Diseases	-Shall be mitigated by occupational health and safety standards enforcement	Contractor & all foremen	Continuous	
Increased Pressure on Infrastructure	-Coordinate with other planning goals and objectives for region	Architect, Project Manager, Contactor and the Developer	Continuous	
	-Upgrade existing infrastructure and services, if and where feasible.			
Insecurity	-Appoint security personnel operating 24 hours	Security Officer, Project Manager & Police	Continuous	Part of general safety
	-Body-search the workers on entry, to avoid getting weapons on site, and leaving site to ensure nothing is stolen.			
	-Ensure only authorized personnel get to the site			
Air Pollution	-Suitable wet suppression techniques need to be utilized in all exposed areas	The Contractor & Site Safety Officer	Continuous	Part of dust control
	-All unnecessary traffic must be strictly limited on site; speed controls are to be enforced			
Emergence of new environmental concern during the construction phase	-Due to the magnitude of the project, the Firm of experts shall carry out monitoring and evaluation. More so an initial environmental audit will also be carried within a period of 12 months after commencement of the operations	Firm of Experts/ NEMA.	Continuous	200, 000.00

9.2 Operational Phase ESMP

The necessary objectives, activities, mitigation measures, and allocation of responsibilities pertaining to prevention, minimization and monitoring of significant negative impacts and maximization of positive impacts associated with the operational phase of proposed Project are outlined in the table below.

Table 7: Environmental management/monitoring Plan for the operational phase

Expected Negative Impacts	Recommended Mitigation Measures	Responsible Party	Time Frame	Estimated Cost (KES)
Solid waste generation	**1.** Use of an integrated solid waste management system i.e. through a hierarchy of options: 1. Source separation and reduction 2. Recycling 3.Composting and reuse 4. Combustion 5. Sanitary land filling.	Resident Project Manager & Contractor	Throughout construction period	20, 000.00 per month
	2. Provide solid waste handling facilities such as rubbish bags and skips		One-off	
	3. Ensure that solid wastes generated at the facility are regularly disposed of appropriately at authorized dumping sites		Continuous	

	4. Awareness creation among staff and students on proper waste management			
	5. Ensure that staff and students manage their waste efficiently through recycling, reuse and proper disposal procedures.			
	6. Donate redundant but serviceable equipment to charities and institutions			
Release of sewage into the environment	**1.** Provision of adequate and safe means of handling sewage generated at the project via sufficient septic tank systems	Resident Project Manager & Mechanical Engineer	One-off	10, 000.00 per month
	2. Conduct regular inspections for sewage pipe blockages or damages and fix appropriately		Continuous	
	3. Ensure regular monitoring of the sewage discharged from the project to ensure that the stipulated sewage/effluent discharge rules and standards are not violated			
High demand for energy	**1.** Switch off electrical equipment, appliances and lights when not being used	Resident Project Manager & Occupants of the facility	Continuous	Part of the main budget
	2. Install occupation sensing lighting at various locations such as storage areas which are not in use all the time		One-off	
	3. Install energy saving fluorescent tubes at all lighting points within the developments instead of bulbs which consume higher electric energy			
	4. Monitor energy use during the operation of the project and set targets for efficient energy use		Continuous	
	5. Sensitize development occupants to use energy efficiently			500, 000.00
	6. Explore the possibility of using renewable sources of energy such as wind and solar energy		One-off	
Noise pollution	1. Erect artificial hills and plant dense rows of trees and shrubs around the perimeter of the playgrounds as buffers to absorb and deflect noise. 2. Erect acoustic barriers or soundproof fences around the playgrounds and sports fields. 3. Seek to sound proof windows for the willing highly affected neighbors	Project proponent / willing affected residents	One-off	2,000,000.00
	4. Plan game times to avoid early mornings, late evenings, and other times when residents are most likely to be at home and sensitive to noise 5. Develop and enforce policies that encourage students to be mindful of noise levels during outdoor activities. This can include designated quiet times or areas. 6. Regularly communicate with neighboring residents to keep them informed about school activities and listen to their concerns regarding noise. This can help build a cooperative relationship and allow for timely adjustments to schedules or activities	Project proponent	Continuous	10,000.00 a term
High water demand	**1**. Promptly detect and repair water pipes and tank leaks	Resident Project Manager & Mechanical Engineer	Continuous	10, 000.00 month
	2. Occupants to conserve water e.g. by avoiding unnecessary toilet flushing.			
	3. Ensure taps are not running when not in use			
	4. Install water conserving taps that turn-off automatically when water is not being used		One-off	
	5. Install a discharge meter at water outlets to determine and monitor total water usage			
	6. Create water conservation awareness among the		Continuous	

	occupants			
Increased health and safety impacts	**1**. all necessary measures to ensure health and safety of school and the general public during operation of the project	Resident Project Manager, Mechanical Engineer, & Developer	Continuous	100, 000.000
	2. Slip roads should be constructed to ease getting and leaving the site- a proper traffic management plan should be developed		One off	
Increased general safety & security impacts	**1.** Ensure the general safety and security at all times by providing day and night security guards and adequate lighting within and around the premises.	Security Officer, Manager & Police	Continuous	
Increased Pressure on Infrastructure	**1.** Coordinate with other planning goals and objectives for region	Architect, Project Manager, and the Developer	Continuous	100, 000.00
	2. Upgrade existing infrastructure and services, if and where feasible.			
	3. Ensure only authorized personnel get to the development			
Air Pollution	**1.** Suitable wet suppression techniques need to be utilized in all exposed areas	Site Safety Officer/ Residents project manager	Continuous	10, 000.00 per month
	2. All unnecessary traffic must be strictly limited on site, speed controls are to be enforced			
	3. Use of unleaded fuel to be encouraged			
Emergence of new environmental concerns	**1**. Undertake an environmental audit within 12 months after operation commences as required by law	EIA Experts/ NEMA	Annually	Quoted earlier

9.3 Decommissioning Phase

In addition to the mitigation measures provided in tables above, it is necessary to outline some basic mitigation measures that will be required to be undertaken once all operational activities of the project have ceased. The necessary objectives, mitigation measures, allocation of responsibilities, time frames and costs pertaining to prevention, minimization and monitoring of all potential impacts associated with the decommissioning and closure phase of the project are outlined in the following table.

Table 8: Environmental Management Plan for the demolition/decommissioning phase of the Project

Recommended Mitigation Measures	Responsible Party	Time Frame
1. Demolition waste management		
1. All buildings, machinery, equipment, structures and partitions that will not be used for other purposes must be removed and recycled/reused as far as possible	Contractor, Proponent	One-off
2. All foundations must be removed and recycled, reused or disposed of at a licensed disposal site		
3. Where recycling/reuse of the machinery, equipment, implements, structures, partitions and other demolition waste is not possible, the materials should be taken to a licensed waste disposal site		
4. Donate reusable demolition waste to charitable organizations, individuals and institutions		
2. Rehabilitation of project site		
1. Implement an appropriate re-vegetation program to restore the site to its original status	Contractor, Proponent	One-off
2. Consider use of indigenous plant species in re-vegetation		
3. Trees should be planted at suitable locations so as to interrupt slight lines (screen planting), between the adjacent area and the development.		

10. CONCLUSION AND RECOMMENDATIONS

10.1 Conclusion

The ESIA study has established that the proposed development by the Nairobi Waldorf School Trust is a highly beneficial investment. It is projected to contribute significantly to the improvement of educational standards within the school and community and to stimulate economic development. The anticipated positive impacts include, but are not limited to, economic growth, the bolstering of the informal sector during the construction phase, the provision of a market for building materials, job creation, increased government revenue, and the optimal use of land.

10.2 Recommendation

The proponent of the proposed project is committed to implementing several measures to mitigate potential negative environmental, safety, health, and social impacts associated with the project's lifecycle. It is recommended that, in addition to this commitment, the proponent focuses on implementing the measures outlined in the Environmental and Social Management Plan (ESMP) and adheres to all relevant national and international environmental, health, and safety standards, policies, and regulations that govern the establishment and operation of such projects.

The potential positive impacts arising from the proposed development should be maximized to the greatest extent possible. These measures will ensure the highest standards of environmental compliance and performance. It is our recommendation that the project be allowed to proceed, provided the following conditions are met:

1. **Adherence to Mitigation Measures**: The proponent must strictly follow the mitigation measures outlined in the ESIA report.
2. **Implementation of the ESMP**: The Environmental and Social Management Plan (ESMP) must be implemented in full to address the potential impacts identified during the assessment.
3. **Compliance with Regulatory Conditions**: The developer must adhere to all conditions of approval set forth by the National Environment Management Authority (NEMA) and any other relevant regulatory bodies.
4. **Commit to coming up with the most effective method of noise management from the school community**

11. REFFERENCES

i. Environmental Management and Coordination (Noise and Excessive Vibration Pollution) (Control) Regulations, 2009, government printer, Nairobi

ii. Kenya gazette supplement Acts 2000, Environmental Management and Coordination Act Number 8 of 1999. Government printer, Nairobi

iii. Kenya gazette supplement Acts Penal Code Act (Cap.63) Government Printers, Nairobi

iv. Kenya gazette supplement Acts Physical Planning Act, 1999, Government Printers, Nairobi

v. Kenya gazette supplement Acts Public Health Act (Cap. 242) government printer, Nairobi

vi. Kenya gazette supplement Acts Water Act, 2002, Government Printers, Nairobi

vii. Kenya gazette supplement Food, Drugs and Chemical Substances Act (Cap 254) Government Printers, Nairobi

viii. Kenya gazette supplement number 56. Environmental Impact Assessment and Audit Regulations 2003, Government Printers, Nairobi

ix. Kenya gazette supplement number 68, Environmental Management and Coordination (Water Quality) Regulations, 2006, Government printer, Nairobi

x. Kenya gazette supplement number 69, Environmental Management and Coordination (Waste management) Regulations, 2006, Government printer, Nairobi.

xi. Pollution prevention and abatement handbook – Part III, (September, 2001) National Development Plan, 2002-2008; Effective Management for Sustainable Economic Growth and Poverty Reduction, Government Printers, Nairobi

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xiv. Kenya National Bureau of Statistics (KNBS), 2019 Kenya Population and Housing Census Reports. Analytical report on household and family dynamics, volume I and IV. Available from https://www.knbs.or.ke/?wpdmpro=2019-kenya-population-and-housing-census-volume-iv-distribution-of-population-by-socio-economic-characteristics and https://www.knbs.or.ke/?wpdmpro=2019-kenya-population-and-housing-census-volume-i-population-by-county-and-sub-county

xv. Angel, S. et al. (2011), *Making Room for a Planet of Cities*, Lincoln Institute of Land Policy, http://www.lincolninst.edu

xvi. Nairobi County Integrated Development plan 2018-2022.pdf

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xviii. Karagulian, F. et al. (2015), "Contributions to cities' ambient particulate matter (PM): A systematic review of local source contributions at global level", *Atmospheric Environment*, Vol. 120, pp. 475-483, http://dx.doi.org/10.1016/j.atmosenv.2015.08.087.

xix. Borck, R. and P. Schrauth (2021), "Population density and urban air quality", *Regional Science and Urban Economics*, Vol. 86/January, pp. 1-24.

xx. Kuethe, T. and R. Keeney (2012), "Environmental Externalities and Residential Property Values: Externalized Costs along the House Price Distribution", *Land Economics*, Vol. 88/2, pp. 241-250.

xxi. Wang, Y. et al. (2015), "Impact of urban landscape and environmental externalities on spatial differentiation of housing prices in Yangzhou City", *Journal of Geographical Sciences*, Vol. 25/9, pp. 1122-1136, http://dx.doi.org/10.1007/s11442-015-1223-6.

12. APPENDICES:

12.1 Experts' Licenses

EAE 23061569

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/20715

Application Reference No: NEMA/EIA/EL/27398

M/S **PATRICK KYALO KITUTA**
(individual or firm) of address
P.O. Box 76065 - 00508 NAIROBI

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

registration number **1275**

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

Issued Date: **1/31/2024** Expiry Date: **12/31/2024**

Signature.....

(Seal)
Director General
The National Environment Management Authority

P.T.O.

ISO 9001 : 2015 Certified

EAE 23060189

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/20442

Application Reference No: NEMA/EIA/EL/27130

M/S **Patience Nyakoboke Gwaro**
(individual or firm) of address
P.O. Box 72556 - 00200 NAIROBI

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

registration number **8950**

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

Issued Date: **1/18/2024** Expiry Date: **12/31/2024**

Signature.....

(Seal)
Director General
The National Environment Management Authority

P.T.O.

ISO 9001 : 2015 Certified

FORM 7

EAE 23060927

(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/21391

Application Reference No: NEMA/EIA/EL/28458

M/S **BONIFACE MAINA MWANIKI**
(individual or firm) of address
P.O. Box 324 - 20303 OLKALAU

is licensed to practice in the capacity of a (Lead Expert/Associate Expert/Firm of Experts) **Associate Expert** registration number **10414**

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

Issued Date: **3/22/2024** Expiry Date: **12/31/2024**

Signature.....

(Seal)
Director General
The National Environment Management Authority

P.T.O.

ISO 9001 : 2015 Certified

EAE 23061644

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/20586

Application Reference No: NEMA/EIA/EL/27412

M/S **BURHANUDIN MOHAMUD**
(individual or firm) of address
P.O. Box 30 - 70300 MANDERA

is licensed to practice in the capacity of a (Lead Expert/Associate Expert/Firm of Experts) **Associate Expert** registration number **10566**

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

Issued Date: **1/25/2024** Expiry Date: **12/31/2024**

Signature.....

(Seal)
Director General
The National Environment Management Authority

P.T.O.

FORM 7

EAE 2 3060647
(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/21101
Application Reference No: NEMA/EIA/EL/27930

M/S **ESTHER MBATHA MUTHIANI**
(individual or firm) of address
P.O. Box 87-90101 MASII

is licensed to practice in the capacity of a (Lead Expert/Associate Expert/Firm of Experts) **Associate Expert** registration number **8770**

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

Issued Date: **2/29/2024**

Expiry Date: **12/31/2024**

Signature.....

(Seal)
Director General
The National Environment Management Authority

P.T.O.

ISO 9001 : 2015 Certified

EAE 23061641

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/20590

Application Reference No: NEMA/EIA/EL/27399

M/S **DEVLINK RESOURCES CONSULTANTS**
(individual or firm) of address
P.O. Box 76065 - 00508 NAIROBI

is licensed to practice in the capacity of a (Lead Expert/Associate Expert/Firm of Experts) **Firm of Experts** registration number **2355**

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

Issued Date: **1/25/2024** Expiry Date: **12/31/2024**

Signature.....

(Seal)
Director General
The National Environment Management Authority

P.T.O.

ISO 9001 : 2015 Certified

12.2 Proponent and Project Related Documents

a) Proponent Registration and PIN

REPUBLIC OF KENYA

MINISTRY OF EDUCATION, SCIENCE AND TECHNOLOGY

ED/R

CERTIFICATE OF REGISTRATION OF SCHOOLS

NAME OF SCHOOL NAIROBI WALDORF SCHOOL	TOWN OR LOCATION AND PLOT NUMBER KAREN 1055/57
CLASSIFICATION OF SCHOOL MIXED DAY KINDERGARTEN/PRIMARY(PRIVATE)	DISTRICT NAIROBI PROVINCE NAIROBI
NAME OF MANAGER DIANA C.M. SMIT	ADDRESS OF MANAGER/SPONSOR P.O. BOX 13732-00800, NAIROBI
INSTRUCTION MAY BE GIVEN IN THIS SCHOOL UP TO STD 7	MAXIMUM NUMBER OF PUPILS TO BE ACCOMMODATED TWO NURSERY CLASSES AT 22 PUPILS PER CLASS, SINGLE STREAM PRIMARY STD 1-7 AT 22 PUPILS PER CLASS, WITH A MAXIMUM OF 198 PUPILS
REGISTRATION NUMBER PE/4249/2008	SUBJECTS TAUGHT WALDORF STEINER CURRICULUM
DATE OF REGISTRATION 12/2/2008	S.K. KARABA (DSM) FOR: PERMANENT SECRETARY
	SPECIAL REMARKS THIS CERTIFICATE OF FULL REGISTRATION CANCELS THE PREVIOUS ONE NO. PE/3389/2006
NAME OF SCHOOL	DATE REGISTRATION NUMBER TOWN OR LOCATION

Distribution

White —SCHOOL
Blue —P.D.E.
Pink —MANAGER
Yellow —M.O.E.S.T

Notes

1. This certificate is the property of the ministry and must be returned to the ministry on demand.
2. If it is proposed that any of the particulars in this certificate should be changed, a new application for registration must be made in the normal way.
3. It is illegal to hold or have in custody an invalid certificate of registration of a school.

GPK (L) 288—500Bks—14/2002

KENYA REVENUE AUTHORITY

www.kra.go.ke

PIN Certificate

For General Tax Questions
Contact KRA Call Centre
Tel: +254 (020) 4999 999
Cell: +254(0711)099 999
Email: callcentre@kra.go.ke

Certificate Date : 29/04/2016

Personal Identification Number

P051127412M

This is to certify that taxpayer shown herein has been registered with Kenya Revenue Authority

Taxpayer Information

Taxpayer Name	NAIROBI WALDORF SCHOOL
Email Address	admin@nairobiwaldorfschool.ac.ke

Registered Address

L.R. Number :	**Building :** Nairobi Waldorf School
Street/Road : Miotoni Road	**City/Town :** Karen
County : Nairobi	**District :** Langata District
Tax Area : Karen	**Station :** West of Nairobi*
P. O. Box : 13732	**Postal Code :** 00800

Tax Obligation(s) Registration Details

Sr. No.	Tax Obligation(s)	Effective From Date	Effective Till Date	Status
1	Income Tax - PAYE	01/08/1999	N.A.	Active
2	Income Tax - Company	27/05/1999	N.A.	Active

The above PIN must appear on all your tax invoices and correspondences with Kenya Revenue Authority. Your accounting end month is August unless a change has been approved by the Commissioner-Domestic Taxes Department. The status of Tax Obligation(s) with 'Dormant' status will automatically change to 'Active' on date mentioned in "Effective Till Date" or any transaction done during the period. This certificate shall remain in force till further updated.

* The station is subject to change based on the verification done by Commissoner.

b) Land Title

THE LAND REGISTRATION ACT, No. 3 OF 2012
(*Section* 108)

~~THE~~ REGISTRATION OF TITLES ACT
(*Chapter* 281) (Repealed)

CERTIFICATE OF TITLE

TITLE No. 160302

I HEREBY CERTIFY that POPLAR INVESTMENTS LIMITED

of Posr Office Box Number 1331-00502 NAIROBI

in the Republic of Kenya pursuant to a Transfer registered as Number I.R. 6210/12
is/are now the registered proprietor(s) as owner(s) for an estate in fee simple

of ALL that piece of land situate in the City of Nairobi

in the Nairobi Area District containing by measurement Two Decimal Three Three Th

~~hectares/acres/feet/road/reserve~~ of (2.333)Ha.

~~hectares/acres~~) or thereabouts and being Land Reference Number 7336/76

(Original Number 7336/3/6)

as delineated on Land Survey Plan Number 112132

annexed to the said Transfer

SUBJECT however to the Act(s) Special Conditions Encumbrances and other matters specified in the Memorandum hereunder written.

IN WITNESS whereof I have hereunto set my hand and seal this 24th

day of November Two thousand and Fourteen

Registrar of Titles
C. C. Kityenya 274

MEMORANDUM

LAND TITLES REGISTRY - NAIROBI REGISTRY
REGISTRATION OF TITLE ACT
REGISTERED AS I.R. 160302/1.
PRESENTED 24th November, 2014
TIME 1030 hrs
Registrar of Titles
C. C. Kityenya 274

GPK 5298—3m—3/2013

2. joint tenants.

Presentation No. 3357 Date of Registration 28 · 12 · 44

3. THE FOLLOWING INSTRUMENT HAS BEEN REGISTERED AGAINST THIS TITLE
Death Certificate of Lilian Georgina Amy - Deceased (with other Lands)

Presentation No 4761 Date of Registration 7-6-56 Registrar of Titles

4. THE FOLLOWING INSTRUMENT HAS BEEN REGISTERED AGAINST THIS TITLE
Probate of Will of Archibald Craig Amy - decd. to The Standard Bank Limited as personal representative.

Presentation No. 770 Date of Registration 21-6-1966. Registrar of Titles

5. THE FOLLOWING INSTRUMENT HAS BEEN REGISTERED AGAINST THIS TITLE
Transfer (Assent) to Norah Ffolliott Amy.

Presentation No. 771 Date of Registration 21-6-1966. Registrar of Titles

6. THE FOLLOWING INSTRUMENT HAS BEEN REGISTERED AGAINST THIS TITLE
Transfer to John Rowland Minns.

Presentation No. 551 Date of Registration 13·10·72 Registrar of Titles

7. THE FOLLOWING INSTRUMENT HAS BEEN REGISTERED AGAINST THIS TITLE
Charge to Housing Finance Company of Kenya Limited.

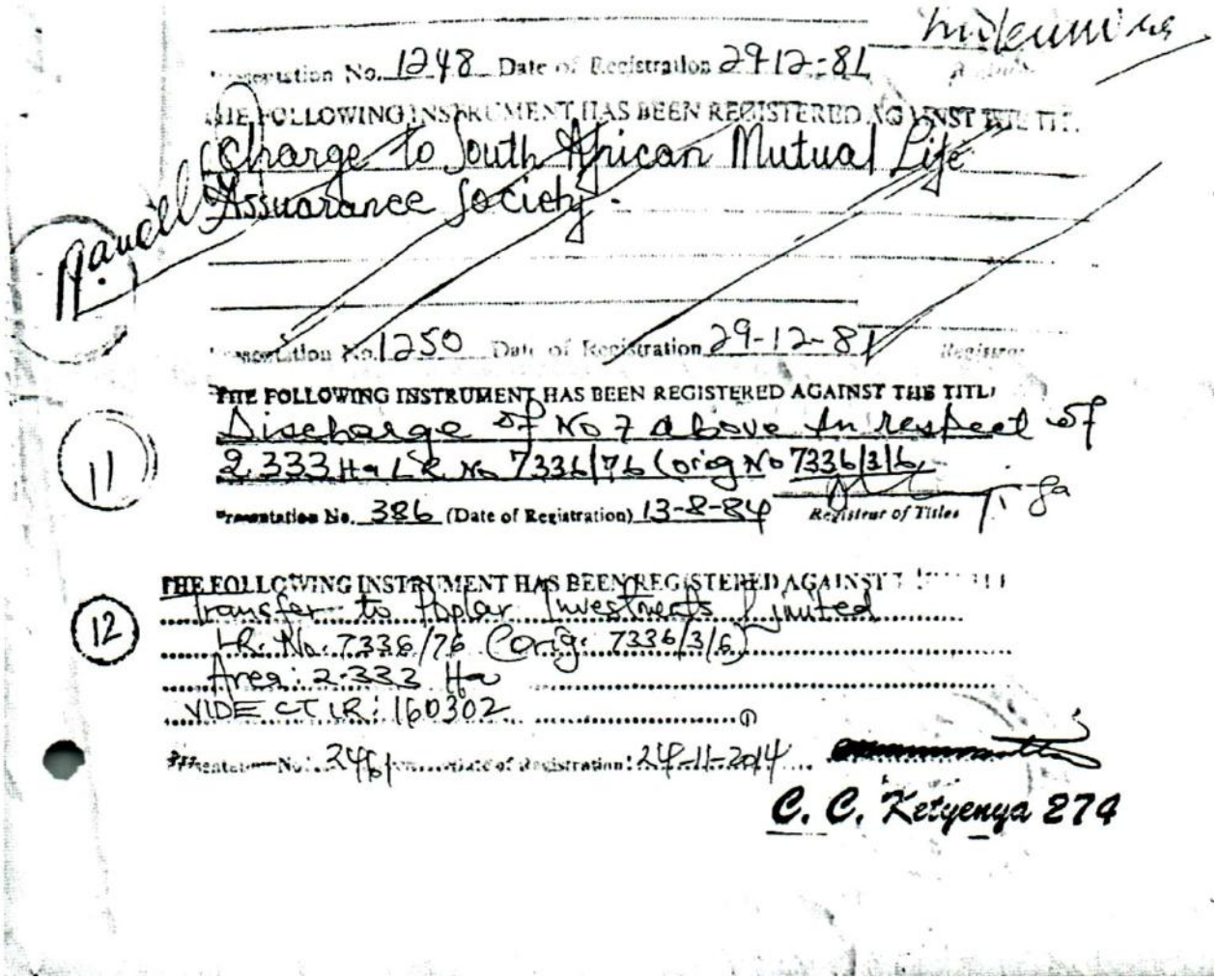
Presentation No. 552 Date of Registration 13·10·72 Registrar of Titles

8. THE FOLLOWING INSTRUMENT HAS BEEN REGISTERED AGAINST THIS TITLE
Certificate of Sub-division, Subdividing the above mentioned plot into two sub divisions

Presentation No. 1246 Date of Registration 29-12-81 Registrar of Titles

9. THE FOLLOWING INSTRUMENT HAS BEEN REGISTERED AGAINST THIS TITLE
Discharge of No 7 above. LR No. 7336/35 (Orig) No 7336/3/5

Presentation No. 1247 Date of Registration 29-12-81 Registrar of Titles



Indemnities

...ription No. 1248 Date of Registration 29-12-87

THE FOLLOWING INSTRUMENT HAS BEEN REGISTERED AGAINST THE TITLE

Charge to South African Mutual Life Assurance Society

Raudl

...ription No. 1250 Date of Registration 29-12-87

THE FOLLOWING INSTRUMENT HAS BEEN REGISTERED AGAINST THE TITLE

(11) Discharge of No 7 above in respect of 2.333 Ha LR No 7336/76 (orig No 7336/3/6)

...entation No. 386 (Date of Registration) 13-8-84 Registrar of Titles

THE FOLLOWING INSTRUMENT HAS BEEN REGISTERED AGAINST THE TITLE

(12) Transfer to Aplar Investments Limited

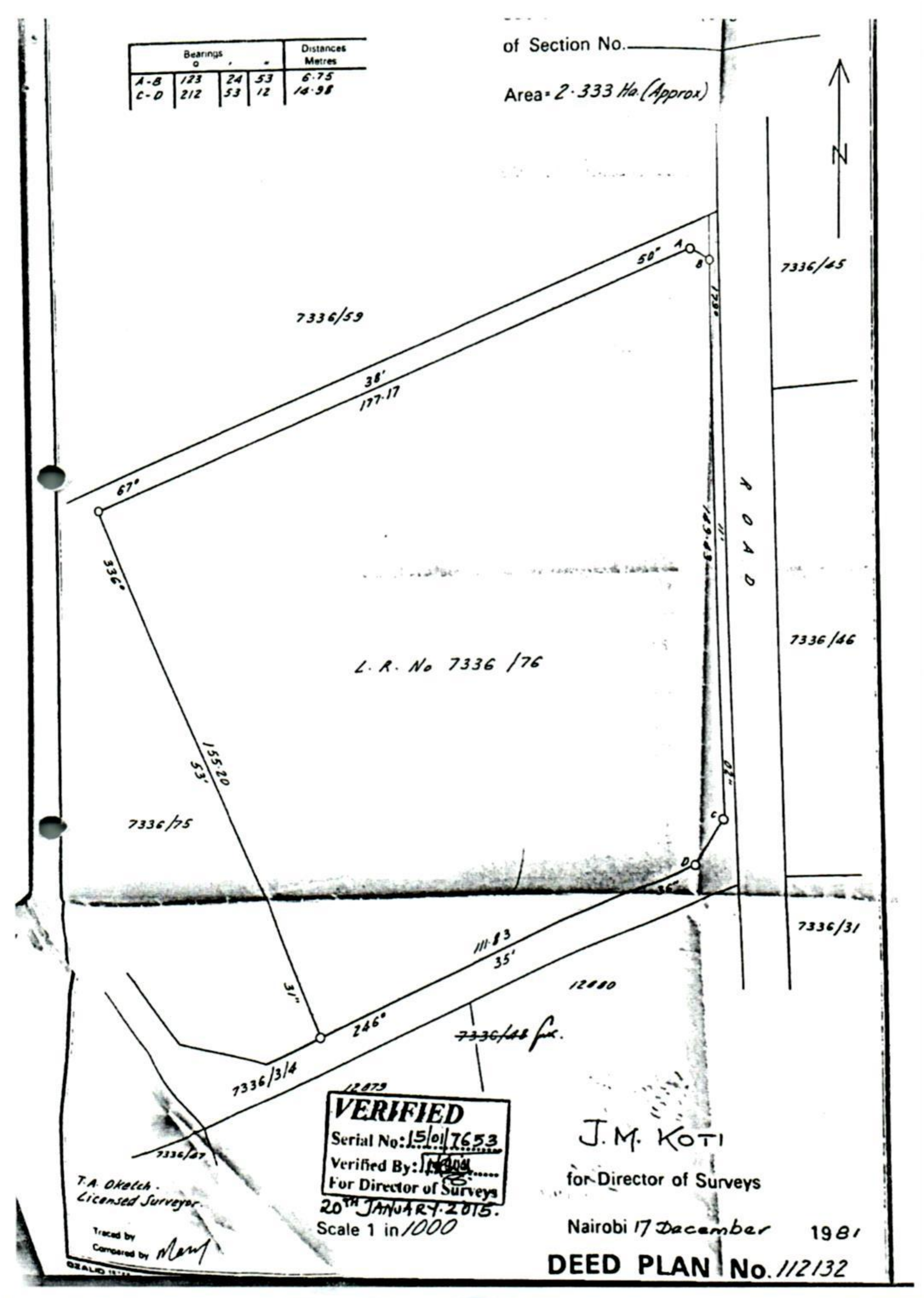
LR. No. 7336/76 Orig. 7336/3/6

Area: 2.333 Ha

VIDE CT LR: 160302

...entation No. 2461 ...Date of Registration: 24-11-2014

C. C. Kenyenya 274



Bearings	°	'	"	Distances Metres
A-B	123	24	53	6·75
C-D	212	53	12	14·98

of Section No.
Area= 2·333 Ha. (Approx)
N
7336/45
7336/59
7336/46
7336/75
7336/31
L. R. No 7336 /76
ROAD
177·17
155·20
111·83
12880
7336/3/4
7336/48
12879
7336/27
VERIFIED
Serial No: 15/01/7653
Verified By:
For Director of Surveys
20TH JANUARY. 2015.
J. M. KOTI
for Director of Surveys
T.A. Okelch.
Licensed Surveyor.
Traced by
Compared by
Scale 1 in 1000
Nairobi 17 December 1981
DEED PLAN No. 112132

c) Copy Of The Cancelled License

nema HQ: 0013930

nema
mazingira yetu | uhai wetu | wajibu wetu

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

License No: **NEMA/EIA/PSL/22968**

Application Reference No: **NEMA/EIA/PSR/33503**

This is to certify that the Environmental Impact Assessment Project Report received from

The Nairobi Waldorf School Trust

P.O. Box 13732 – 00800, Nairobi

submitted to the National Environment Management Authority in accordance with the Environmental Impact Assessment & Audit Regulations, 2003 regarding the:

Proposed Construction of Semi-Permanent Classrooms and a Dining Hall

whose objective is to carry on

Construction of twenty (20) no. classroom units, a dining hall and other associated amenities

located at

Plot L.R. No. 7336/76_ along Nandi Road, Karen area, Lang'ata Sub-County, Nairobi County.

has been reviewed and a license is hereby issued for the implementation of the project, subject to attached conditions.

issue date : **29 November, 2022**

Signature

(seal)

Director-General
The National Environment Management Authority.

P.T.O.

ISO 9001: 2015 Certified

CONDITIONS OF LICENSE

1.0 This license is valid for the period of 24 months (time within which the project should commence) from the date hereof.

2.0 The Director-General shall be notified of any transfer/variation, surrender of this license.

3.0 General Conditions

3.1. This licence is issued for the construction of a twenty (20) no. classroom units, a dining hall and other associated amenities on Plot L.R. No. 7336/76__ along Nandi Road, Karen area, Lang'ata Sub-County, Nairobi County.

3.2. Without prejudice to the other conditions of this license, the proponent shall implement and maintain an environmental management system, organizational structure and allocate resources that are sufficient to achieve compliance with the requirements and conditions of this license.

3.3. The Authority shall take appropriate action against the proponent in the event of breach of any of the conditions stated herein or any contravention to the Environmental Management and Co-ordination Act, No. 8 of 1999 and regulations there under.

3.4. This license shall not be taken as statutory defense against charges of pollution in respect of any manner of pollution not specified herein.

3.5. The proponent shall ensure that records on conditions of licenses/approval and project monitoring and evaluation shall be kept on the project site for inspection by NEMA's Environmental Inspectors.

3.6. The proponent shall submit an Environmental Audit Report in the first year of occupation/ operation/ commissioning to confirm the efficacy and adequacy of the Environmental Management Plan.

3.7. The proponent shall comply with NEMA's improvement orders throughout the project cycle.

3.8. The proponent shall provide the final project accounts (final project costs) on the completion of the construction phase. This should be done prior to the project commissioning/operation/occupation.

4.0 Construction Conditions

4.1. The proponent shall obtain the requisite approvals from the Nairobi City County Government (NCCG), Nairobi Metropolitan Services (NMS) and all other relevant Authorities prior to commencement of works.

4.2. The proponent shall ensure that the construction is done as per the approved drawings in adherence to the Building code 1968 and the provisions of the National Construction Act, 2011. The proponent shall further ensure that construction works and the entire project is supervised by registered and practising engineers and project architects.

4.3. The proponent shall ensure the project will not encroach on any way – leaves for sewer, water, power lines, drainage systems, road reserves and other public utilities before commencement of the construction works.

4.4. The proponent shall put up a project signboard as per the Ministry of Transport and Infrastructure Standards indicating the **NEMA Reference Number** on the construction sign bard approved by the Nairobi City County.

4.5. The proponent shall ensure that the plot does not constitute part of any disputed private/public land and/or allocations by the Nairobi City County Government (NCCG) and any other government authorities/institutions.

4.1. The proponent shall ensure to adhere to the Ministry of education building guidelines on classrooms during the construction and operational phase.

4.2. The proponent shall ensure buffers (hoarding and dust screens) are installed to protect members of the public from falling objects and shall put in place adequate measures to mitigate air/dust pollution.

4.3. The proponent shall seek approval for sewarage reticulation/connection to dispose waste water to the convectional sewer system that serves the area from the relevant water and sewerage services provider.

4.4. The proponent shall design and implement a concise traffic management plan duly approved by the City Engineer and other relevant Authorities before commencement of works and throughout the project cycle.

4.5. The proponent shall ensure that all excavated material and debris is collected, re-used and where need be disposed off as per the Environmental Management and Coordination (Waste Management) Regulations 2006.

4.6. The proponent shall ensure strict adherence to the provisions of Environmental Management and Coordination (Noise and Excessive Vibrations Pollution Control) Regulations 2009.

4.7. The proponent shall ensure strict adherence to the Occupational Safety and Health Act (OSHA), 2007 and rules there under.

4.8. The proponent shall ensure that construction workers are provided with adequate personal protection equipment (PPE), sanitary facilities as well as adequate training.

4.9. The proponent shall ensure that construction activities are undertaken during the day (and not at night) - between 08.00 hrs and 17.00 hrs; and 0800 hrs to 1300 hrs on Saturdays only; and that transportation of construction materials to and from site are undertaken during weekdays (and not weekends) off peak hours.

4.10. The proponent shall ensure strict adherence to the Environmental Management Plan developed throughout the project cycle.

4.11. The proponent shall ensure that all the cooling systems employed are suitable alternatives with zero ozone depleting potential as per Environmental Management and Coordination (Controlled Substances) Regulation, 2006.

4.12. The proponent shall ensure that the building has provisions for a barrier-free and disability –friendly environment to enable persons with disabilities have access to the development in accordance with provisions of Persons with Disabilities Act, 2003.

4.13. The proponent shall ensure that the development adheres to zoning specifications issued for development of such a project within the jurisdiction of Nairobi City County Government (NCCG) and Departments of Lands, Housing & Urban Development with emphasis on approved land use for the area.

4.14. The proponent shall ensure that adequate and appropriate sanitary facilities are provided for the workers during construction phase and that proper decommissioning of the facilities is carried out once construction is complete.

4.15. The proponent shall ensure that any other construction, machine or equipment installation works not mentioned in the report, shall be subjected to a separate EIA process.

5. Operational Conditions

5.1. The proponent shall ensure that all waste water is disposed as per the standards set out in the Environmental Management and Coordination (Water Quality) Regulations 2006.

5.2. The proponent shall design and provide a containment for waste water and liquid wastes and shall ensure adequate treatment before discharge to the sewer line in accordance with the Water Quality Regulations, 2006.

5.3. The proponent shall ensure that rain water harvesting facilities are provided to supplement surface and ground water.

5.4. The proponent shall ensure that all drainage facilities are fitted with adequate functional oil-water separators and silt traps.

5.5. The proponent shall ensure that appropriate and functional efficient Air Pollution Control mechanisms are installed in the facility to control all air emissions.

5.6. The proponent shall ensure compliance with the provisions of the Energy (Solar Water Heating) Regulations, 2012.

5.7. The proponent shall ensure that all equipments used are well maintained in accordance with the Environmental Management and Coordination (Noise and Excessive Vibration Pollution Control) Regulations 2009. The proponent shall further ensure full compliance with the provisions and standards of the Environmental Management and Coordination (Noise and Excessive Vibration Pollution Control) Regulations, 2009.

5.8. The proponent shall ensure that all equipments used are well-maintained in accordance with the Environmental Management and Coordination (Noise and Excessive Vibration Pollution Control) Regulations, 2009.

5.9. The proponent and proprietors of the facility shall ensure that no person shall make or cause to be made excessive vibrations which annoy, disturb, injure or endanger the comfort, repose, health of safety of others and the environment.

5.10. The proponent shall ensure that all solid waste is handled in accordance with the Environmental Management and Coordination (Waste Management) Regulations 2006.

5.11. The proponent shall ensure that all workers are provided with suitable and adequate PPEs and trained as per the provisions of OSHA, 2007 and rules thereunder.

5.12. The proponent shall comply with the relevant principal laws, by-laws and guidelines issued for development of such a project within the jurisdiction of Ministry of Health, Directorate of Occupational Safety and Health Services (DOSH), Architectural Association of Kenya, Departments of Lands, Housing & Urban Development, National Construction Authority (NCA), Kenya Urban Roads Authority (KURA), Nairobi City Water & Sewerage Company, Nairobi City County Government (NCCG) and other relevant Authorities.

5.13. The proponent shall ensure that environmental protection facilities or measures to prevent pollution and ecological deterioration such as use of energy and water saving equipment, functional landscaping, integrated waste management, tree planting, installation of water and energy–saving fixtures, emergency response plan, dust control measures, traffic management plan, functional storm drainage system, solid waste management plan, waste water management plan, security management plan, soil erosion control and noise abatement mechanism and sewer reticulation mechanisms are designed, constructed and employed simultaneously with the proposed project.

6. Notification Conditions

6.1. The proponent shall seek written approval from the Authority for any operational changes under this licence.

6.2. The proponent shall ensure that the Authority is notified of any malfunction of any system within 12 hrs on the NEMA hotline 020 6006041 and mitigation measures put in place.

6.3. The proponent shall keep records of all pollution incidences and notify the Authority within 24 hrs.

6.4. The proponent shall notify the Authority of its intent to decommission three months in advance in writing.

7. Decommissioning Conditions

7.1. The proponent shall ensure that a decommissioning plan is submitted to the Authority for approval at least three (3) months prior to decommissioning.

7.2. The proponent shall ensure that all pollutants and polluted material is contained and adequate mitigation measures provided during the phase.

The above conditions will ensure environmentally sustainable development and **MUST** be complied with.

d) NEMA EIA Processing Fee Payment Invoice And Receipt

nema

INVOICE

Bill To:

The Nairobi Waldorf School Trust,
P. O. BOX 13732 – 00800,
NAIROBI

Customer No : PSR_33504,
Invoice No: PSR_33503,
Posting Date: 6/23/2022 12:06:03 PM
E-citizen Tracking ID:PSR_33503

National Environment Management Authority(NEMA),
P.O BOX 67839 -0100,
Popo Road off Mombasa Road, Nairobi,
Phone: +(254)-020-6005522/6/7
Email: dgnema@nema.go.ke
Homepage: www.nema.go.ke
VAT Reg. No: P051149406X

No	Description	Unit Amount	Quantity	Amount (KES)
1	Project Submission report	30,000	1	30,000

eCitizen Payment Mode

Note: Use the following link to make payment through E - Citizen Platform
https://portal.nema.go.ke/_layouts/epa.payment.aspx?tracking_id=PSR_33503

nema

Payment Receipt

Invoice Number:PSR_33503
Invoice Status:PAID
Date:24/06/2022

Applicant Details:
PIN:P051127412M
Name:The Nairobi Waldorf School Trust
Phone:
Email:manager@nairobiwaldorfschool.ac.ke

Service	Description	Amount (KES)
Project Submission report	Payment for Project Submission report	30,000
Convenience Fee	Ecitizen Convenience Fee	50.00
	Total Amount Paid	30,050
	Balance	0

eCitizen
Payment Mode
Note: This document is computer generated and therefore not signed. Present it during licence or permit collection

e) Project Design Concept

f) Copy of Public Consultation Questionnaires

Devlink Resources Consultants
P. O. Box 76065-00508, Nairobi
TEL. NO. 0721997876

ESIA PUBLIC CONSULTATION QUESTIONNAIRE FOR NAIROBI WALDORF SCHOOL TRUST PROJECT

Section A: General Information

1. **Name:** JOSEPH SHISAKHA LICHESITI
2. ID number: 9301676
3. **Contact Information:**
   - **Phone Number:** 0720545433
   - **Email Address:** shisakha@gmail.com

Occupation:

Section B: Awareness and Perception

6. **How did you hear about the Nairobi Waldorf School Trust project?**
   - ☐ Newspaper
   - ☐ Social Media
   - ☐ Community Meeting
   - ☐ Word of Mouth
   - ☐ Other (Please specify): _____
7. **How well do you understand the objectives of the project?**
   - ☑ Very well
   - ☐ Well
   - ☐ Somewhat
   - ☐ Not at all
8. **What is your overall perception of the Nairobi Waldorf School Trust project?**
   - ☑ Very positive
   - ☐ Positive
   - ☐ Neutral
   - ☐ Negative
   - ☐ Very negative

Section C: Potential Impacts

9. **What do you think will be the most significant positive impact of the project on the community?** (Select all that apply)
   - ☑ Employment opportunities
   - ☐ Improved local business

- ☐ Enhanced educational facilities
- ☐ Increased property values
- ☐ Other (Please specify): _____

10. **What do you think will be the most significant negative impact of the project on the community?** (Select all that apply)
    - ☐ Noise pollution
    - ☐ Increased traffic
    - ☐ Environmental degradation
    - ☐ Water and energy demand
    - ☐ Other (Please specify): _____

Section D: Noise Pollution

11. **How concerned are you about noise pollution from the project?**
    - ☐ Very concerned
    - ☑ Concerned
    - ☐ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
12. **Do you have any specific suggestions for mitigating noise pollution from the project?**
    - ☑ Yes (Please specify): _____
    - ☐ No

Section E: Traffic and Transportation

13. **How do you feel the project will affect traffic in the area?**
    - ☐ Significantly increase traffic
    - ☐ Slightly increase traffic
    - ☑ No impact
    - ☐ Reduce traffic
    - ☐ No opinion
14. **Do you have any specific suggestions for managing traffic and transportation related to the project?**
    - ☐ Yes (Please specify): _____
    - ☐ No

Section F: Environmental Concerns

15. **How concerned are you about the environmental impact of the project?**
    - ☐ Very concerned
    - ☑ Concerned
    - ☐ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
16. **Do you have any specific suggestions for mitigating environmental impacts of the project?**
    - ☐ Yes (Please specify): _____
    - ☑ No

Section G: Community Engagement

17. **How would you prefer to receive updates about the project?**
    - ☐ Email
    - ☐ Community Meetings
    - ☐ Social Media
    - ☐ Newsletter
    - ☐ Other (Please specify): _____
18. **Would you be interested in participating in community meetings or focus groups related to the project?**
    - ☑ Yes
    - ☐ No
19. **Do you have any additional comments or suggestions regarding the project?**
    - _____
    - _____

Section H: Personal Impact

20. **How do you think the project will impact you personally?**
    - _____
    - _____

Thank you for your time and input. Your feedback is invaluable to us in ensuring the success and positive impact of the Nairobi Waldorf School Trust project on the community.

Date and Signature 3/7/2023

Devlink Resources Consultants
P. O. Box 76065-00508, Nairobi
TEL. NO. 0721997876

ESIA PUBLIC CONSULTATION QUESTIONNAIRE FOR NAIROBI WALDORF SCHOOL TRUST PROJECT

Section A: General Information

1. **Name:** LACHANGAI LBASIGE
2. ID number: ~~23127~~ 23127719
3. **Contact Information:**
   - **Phone Number:** 0712428861
   - **Email Address:**

Occupation:

Section B: Awareness and Perception

6. **How did you hear about the Nairobi Waldorf School Trust project?**
   - ☐ Newspaper
   - ☐ Social Media
   - ☐ Community Meeting ✓
   - ☐ Word of Mouth
   - ☐ Other (Please specify): _____
7. **How well do you understand the objectives of the project?**
   - ☐ Very well ✓
   - ☐ Well
   - ☐ Somewhat
   - ☐ Not at all
8. **What is your overall perception of the Nairobi Waldorf School Trust project?**
   - ☐ Very positive ✓
   - ☐ Positive
   - ☐ Neutral
   - ☐ Negative
   - ☐ Very negative

Section C: Potential Impacts

9. **What do you think will be the most significant positive impact of the project on the community?** (Select all that apply)
   - ☐ Employment opportunities ✓
   - ☐ Improved local business

- ☐ Enhanced educational facilities ✓
- ☐ Increased property values
- ☐ Other (Please specify): _____

10. **What do you think will be the most significant negative impact of the project on the community?** (Select all that apply)
    - ☐ Noise pollution
    - ☐ Increased traffic
    - ☐ Environmental degradation
    - ☐ Water and energy demand
    - ☐ Other (Please specify): No negative impact

Section D: Noise Pollution

11. **How concerned are you about noise pollution from the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☐ Neutral ✓
    - ☐ Not concerned
    - ☐ Not concerned at all
12. **Do you have any specific suggestions for mitigating noise pollution from the project?**
    - ☐ Yes (Please specify): N
    - ☐ No ✓

Section E: Traffic and Transportation

13. **How do you feel the project will affect traffic in the area?**
    - ☐ Significantly increase traffic
    - ☐ Slightly increase traffic
    - ☐ No impact ✓
    - ☐ Reduce traffic
    - ☐ No opinion
14. **Do you have any specific suggestions for managing traffic and transportation related to the project?**
    - ☐ Yes (Please specify): _____
    - ☐ No ✓

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TEL. NO. 0721997876

Section F: Environmental Concerns

15. **How concerned are you about the environmental impact of the project?**
    - ☐ Very concerned ✓
    - ☐ Concerned
    - ☐ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
16. **Do you have any specific suggestions for mitigating environmental impacts of the project?**
    - ☐ Yes (Please specify): _____
    - ☐ No ✓

Section G: Community Engagement

17. **How would you prefer to receive updates about the project?**
    - ☐ Email
    - ☐ Community Meetings
    - ☐ Social Media
    - ☐ Newsletter
    - ☐ Other (Please specify): Phone No 0712428861
18. **Would you be interested in participating in community meetings or focus groups related to the project?**
    - ☐ Yes ✓
    - ☐ No
19. **Do you have any additional comments or suggestions regarding the project?**
    - comunit meetings
    - _____

Section H: Personal Impact

20. **How do you think the project will impact you personally?**
    - _____
    - Employment

Thank you for your time and input. Your feedback is invaluable to us in ensuring the success and positive impact of the Nairobi Waldorf School Trust project on the community.

Date and Signature 3-7-2024

Devlink Resources Consultants
P. O. Box 76065-00508, Nairobi
TEL. NO. 0721997876

ESIA PUBLIC CONSULTATION QUESTIONNAIRE FOR NAIROBI WALDORF SCHOOL TRUST PROJECT

Section A: General Information

1. **Name:** LAWRENCE WERE
2. ID number: 12510678
3. **Contact Information:**
   - **Phone Number:** 0722424479
   - **Email Address:** were.law3@gmail.com

Occupation:

Section B: Awareness and Perception

6. **How did you hear about the Nairobi Waldorf School Trust project?**
   - ☑ Newspaper
   - ☑ Social Media
   - ☑ Community Meeting
   - ☑ Word of Mouth
   - ☐ Other (Please specify): _____
7. **How well do you understand the objectives of the project?**
   - ☐ Very well
   - ☑ Well
   - ☐ ~~Somewhat~~
   - ☐ ~~Not at all~~
8. **What is your overall perception of the Nairobi Waldorf School Trust project?**
   - ☐ Very positive
   - ☑ Positive
   - ☑ Neutral
   - ☐ Negative
   - ☐ Very negative

Section C: Potential Impacts

9. **What do you think will be the most significant positive impact of the project on the community?** (Select all that apply)
   - ☑ Employment opportunities
   - ☑ Improved local business

- Enhanced educational facilities
- Increased property values
- Other (Please specify): _____

10. **What do you think will be the most significant negative impact of the project on the community?** (Select all that apply)
    - Noise pollution
    - Increased traffic
    - Environmental degradation
    - Water and energy demand
    - Other (Please specify): _____

Section D: Noise Pollution

11. **How concerned are you about noise pollution from the project?**
    - Very concerned
    - Concerned
    - ✓ Neutral
    - Not concerned
    - Not concerned at all
12. **Do you have any specific suggestions for mitigating noise pollution from the project?**
    - Yes (Please specify): _____
    - No

Section E: Traffic and Transportation

13. **How do you feel the project will affect traffic in the area?**
    - Significantly increase traffic
    - Slightly increase traffic
    - No impact
    - Reduce traffic
    - ✓ No opinion
14. **Do you have any specific suggestions for managing traffic and transportation related to the project?**
    - Yes (Please specify): _____
    - No

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TEL. NO. 0721997876

Section F: Environmental Concerns

15. **How concerned are you about the environmental impact of the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☑ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
16. **Do you have any specific suggestions for mitigating environmental impacts of the project?**
    - ☐ Yes (Please specify): _____
    - ☑ No

Section G: Community Engagement

17. **How would you prefer to receive updates about the project?**
    - ☑ Email
    - ☑ Community Meetings
    - ☐ Social Media
    - ☐ Newsletter
    - ☐ Other (Please specify): _____
18. **Would you be interested in participating in community meetings or focus groups related to the project?**
    - ☑ Yes
    - ☐ No
19. **Do you have any additional comments or suggestions regarding the project?**
    - N/A
    -

Section H: Personal Impact

20. **How do you think the project will impact you personally?**
    - Job opportunity/supporting
    - Village childhood and education.

Thank you for your time and input. Your feedback is invaluable to us in ensuring the success and positive impact of the Nairobi Waldorf School Trust project on the community.

Date and Signature 03/07/2024

Devlink Resources Consultants
P. O. Box 76065-00508, Nairobi
TEL. NO. 0721997876

ESIA PUBLIC CONSULTATION QUESTIONNAIRE FOR NAIROBI WALDORF SCHOOL TRUST PROJECT

Section A: General Information

1. **Name:** Ibrahim Were
2. ID number: 30807974
3. **Contact Information:**
   - **Phone Number:** 0711366903
   - **Email Address:** Ibrahimwere21@gmail.com.

Occupation: Security guard

Section B: Awareness and Perception

6. **How did you hear about the Nairobi Waldorf School Trust project?**
   - ☐ Newspaper
   - ☐ Social Media
   - ☐ Community Meeting
   - ☑ Word of Mouth
   - ☐ Other (Please specify): _____
7. **How well do you understand the objectives of the project?**
   - ☑ Very well
   - ☐ Well
   - ☐ Somewhat
   - ☐ Not at all
8. **What is your overall perception of the Nairobi Waldorf School Trust project?**
   - ☑ Very positive
   - ☐ Positive
   - ☐ Neutral
   - ☐ Negative
   - ☐ Very negative

Section C: Potential Impacts

9. **What do you think will be the most significant positive impact of the project on the community?** (Select all that apply)
   - ☑ Employment opportunities
   - ☐ Improved local business

- ☐ Enhanced educational facilities
- ☐ Increased property values
- ☐ Other (Please specify): _____

10. **What do you think will be the most significant negative impact of the project on the community?** (Select all that apply)
    - ☐ Noise pollution
    - ☐ Increased traffic
    - ☐ Environmental degradation
    - ☑ Water and energy demand
    - ☐ Other (Please specify): _____

Section D: Noise Pollution

11. **How concerned are you about noise pollution from the project?**
    - ☑ Very concerned
    - ☐ Concerned
    - ☐ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
12. **Do you have any specific suggestions for mitigating noise pollution from the project?**
    - ☑ Yes (Please specify): Using less noisy machines.
    - ☐ No

Section E: Traffic and Transportation

13. **How do you feel the project will affect traffic in the area?**
    - ☐ Significantly increase traffic
    - ☐ Slightly increase traffic
    - ☑ No impact
    - ☐ Reduce traffic
    - ☐ No opinion
14. **Do you have any specific suggestions for managing traffic and transportation related to the project?**
    - ☐ Yes (Please specify): _____
    - ☑ No

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P. O. Box 76065-00508, Nairobi
TEL. NO. 0721997876

Section F: Environmental Concerns

15. **How concerned are you about the environmental impact of the project?**
    - ☑ Very concerned
    - ☐ Concerned
    - ☐ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
16. **Do you have any specific suggestions for mitigating environmental impacts of the project?**
    - ☑ Yes (Please specify): Positive Impact
    - ☐ No

Section G: Community Engagement

17. **How would you prefer to receive updates about the project?**
    - ☑ Email
    - ☐ Community Meetings
    - ☐ Social Media
    - ☐ Newsletter
    - ☐ Other (Please specify): _____
18. **Would you be interested in participating in community meetings or focus groups related to the project?**
    - ☑ Yes
    - ☐ No
19. **Do you have any additional comments or suggestions regarding the project?**
    The Project Should proceed because of the positive impact to the society

Section H: Personal Impact

20. **How do you think the project will impact you personally?**
    It will change the society through employment. Educating my children

Thank you for your time and input. Your feedback is invaluable to us in ensuring the success and positive impact of the Nairobi Waldorf School Trust project on the community.

Date and Signature 3/07/2024

Devlink Resources Consultants
P. O. Box 76065-00508, Nairobi
TEL. NO. 0721997876

ESIA PUBLIC CONSULTATION QUESTIONNAIRE FOR NAIROBI WALDORF SCHOOL TRUST PROJECT

Section A: General Information

1. **Name:** WYCLIFF MUGO GACHERU
2. ID number:
3. **Contact Information:**
   - **Phone Number:** 0722 296 252
   - **Email Address:** wycliffgacheru07@gmail.com.

Occupation: Self (Elder)

Section B: Awareness and Perception

6. **How did you hear about the Nairobi Waldorf School Trust project?**
   - ☐ Newspaper
   - ☐ Social Media
   - ☐ Community Meeting ✓
   - ☐ Word of Mouth
   - ☐ Other (Please specify): _____
7. **How well do you understand the objectives of the project?**
   - ☐ Very well
   - ☐ Well ✓
   - ☐ Somewhat
   - ☐ Not at all
8. **What is your overall perception of the Nairobi Waldorf School Trust project?**
   - ☑ Very positive
   - ☐ Positive
   - ☐ Neutral
   - ☐ Negative
   - ☐ Very negative

Section C: Potential Impacts

9. **What do you think will be the most significant positive impact of the project on the community?** (Select all that apply)
   - ☐ Employment opportunities
   - ☐ Improved local business

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TEL. NO. 0721997876

- ☑ Enhanced educational facilities
- ☐ Increased property values
- ☐ Other (Please specify): _____

10. **What do you think will be the most significant negative impact of the project on the community?** (Select all that apply)
    - ☐ Noise pollution
    - ☐ Increased traffic
    - ☐ Environmental degradation
    - ☑ Water and energy demand
    - ☐ Other (Please specify): _____

Section D: Noise Pollution

11. **How concerned are you about noise pollution from the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☑ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
12. **Do you have any specific suggestions for mitigating noise pollution from the project?**
    - ☐ Yes (Please specify): Adm. Equal to task
    - ☐ No

Section E: Traffic and Transportation

13. **How do you feel the project will affect traffic in the area?**
    - ☐ Significantly increase traffic
    - ☑ Slightly increase traffic
    - ☐ No impact
    - ☐ Reduce traffic
    - ☐ No opinion
14. **Do you have any specific suggestions for managing traffic and transportation related to the project?**
    - ☐ Yes (Please specify): Adm Equal to Task
    - ☐ No

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P. O. Box 76065-00508, Nairobi
TEL. NO. 0721997876

Section F: Environmental Concerns

15. **How concerned are you about the environmental impact of the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☑ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
16. **Do you have any specific suggestions for mitigating environmental impacts of the project?**
    - ☐ Yes (Please specify): ADM Equal to TASK
    - ☐ No

Section G: Community Engagement

17. **How would you prefer to receive updates about the project?**
    - ☐ Email
    - ☐ Community Meetings ✓
    - ☐ Social Media
    - ☐ Newsletter
    - ☐ Other (Please specify): _____
18. **Would you be interested in participating in community meetings or focus groups related to the project?**
    - ☐ Yes ✓
    - ☐ No
19. **Do you have any additional comments or suggestions regarding the project?**
    - Okay it goes on.

Section H: Personal Impact

20. **How do you think the project will impact you personally?**
    - Happy it's a passive project Labour engagement.

Thank you for your time and input. Your feedback is invaluable to us in ensuring the success and positive impact of the Nairobi Waldorf School Trust project on the community.

Date and Signature 3/7/24

Devlink Resources Consultants
P. O. Box 76065-00508, Nairobi
TEL. NO. 0721997876

ESIA PUBLIC CONSULTATION QUESTIONNAIRE FOR NAIROBI WALDORF SCHOOL TRUST PROJECT

Section A: General Information

1. **Name:**
   Harriet Wairimu
2. ID number:
   22915718
3. **Contact Information:**
   - **Phone Number:** 0721763413
   - **Email Address:** hwairimu22@gmail.com

Occupation: Employed

Section B: Awareness and Perception

6. **How did you hear about the Nairobi Waldorf School Trust project?**
   - ☐ Newspaper
   - ☐ Social Media
   - ☑ Community Meeting
   - ☐ Word of Mouth
   - ☐ Other (Please specify): _____
7. **How well do you understand the objectives of the project?**
   - ☐ Very well
   - ☑ Well
   - ☐ Somewhat
   - ☐ Not at all
8. **What is your overall perception of the Nairobi Waldorf School Trust project?**
   - ☐ Very positive
   - ☐ Positive
   - ☑ Neutral
   - ☐ Negative
   - ☐ Very negative

Section C: Potential Impacts

9. **What do you think will be the most significant positive impact of the project on the community?** (Select all that apply)
   - ☑ Employment opportunities
   - ☑ Improved local business

- ☑ Enhanced educational facilities
- ☐ Increased property values
- ☐ Other (Please specify): _____

10. **What do you think will be the most significant negative impact of the project on the community?** (Select all that apply)
    - ☐ Noise pollution
    - ☐ Increased traffic
    - ☐ Environmental degradation
    - ☐ Water and energy demand
    - ☐ Other (Please specify): N/A

Section D: Noise Pollution

11. **How concerned are you about noise pollution from the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☑ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
12. **Do you have any specific suggestions for mitigating noise pollution from the project?**
    - ☐ Yes (Please specify): _____
    - ☑ No

Section E: Traffic and Transportation

13. **How do you feel the project will affect traffic in the area?**
    - ☐ Significantly increase traffic
    - ☐ Slightly increase traffic
    - ☑ No impact
    - ☐ Reduce traffic
    - ☐ No opinion
14. **Do you have any specific suggestions for managing traffic and transportation related to the project?**
    - ☐ Yes (Please specify): _____
    - ☑ No

Devlink Resources Consultants
P. O. Box 76065-00508, Nairobi
TEL. NO. 0721997876

Section F: Environmental Concerns

15. **How concerned are you about the environmental impact of the project?**
    - [x] Very concerned
    - [ ] Concerned
    - [ ] Neutral
    - [ ] Not concerned
    - [ ] Not concerned at all
16. **Do you have any specific suggestions for mitigating environmental impacts of the project?**
    - [ ] Yes (Please specify): _____
    - [x] No

Section G: Community Engagement

17. **How would you prefer to receive updates about the project?**
    - [x] Email
    - [ ] Community Meetings
    - [ ] Social Media
    - [ ] Newsletter
    - [ ] Other (Please specify): _____
18. **Would you be interested in participating in community meetings or focus groups related to the project?**
    - [x] Yes
    - [ ] No
19. **Do you have any additional comments or suggestions regarding the project?**
    - Sub opportunities
    - _____

Section H: Personal Impact

20. **How do you think the project will impact you personally?**
    - Community empowerment
    - _____

Thank you for your time and input. Your feedback is invaluable to us in ensuring the success and positive impact of the Nairobi Waldorf School Trust project on the community.

Date and Signature 3/7/2024 [signature]

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TEL. NO. 0721997876

ESIA PUBLIC CONSULTATION QUESTIONNAIRE FOR NAIROBI WALDORF SCHOOL TRUST PROJECT

Section A: General Information

1. **Name:**
   MARGARET WANJORA KAMANJA
2. ID number:
   13744576
3. **Contact Information:**
   - **Phone Number:** 0790334292
   - **Email Address:**

Occupation:

Section B: Awareness and Perception

6. **How did you hear about the Nairobi Waldorf School Trust project?**
   - ☐ Newspaper
   - ☐ Social Media
   - ☑ Community Meeting
   - ☐ Word of Mouth
   - ☐ Other (Please specify): _____
7. **How well do you understand the objectives of the project?**
   - ☑ Very well
   - ☐ Well
   - ☐ Somewhat
   - ☐ Not at all
8. **What is your overall perception of the Nairobi Waldorf School Trust project?**
   - ☑ Very positive
   - ☐ Positive
   - ☐ Neutral
   - ☐ Negative
   - ☐ Very negative

Section C: Potential Impacts

9. **What do you think will be the most significant positive impact of the project on the community?** (Select all that apply)
   - ☑ Employment opportunities
   - ☑ Improved local business

- ☑ Enhanced educational facilities
- ☐ Increased property values
- ☐ Other (Please specify): _____

10. **What do you think will be the most significant negative impact of the project on the community?** (Select all that apply)
    - ☐ Noise pollution
    - ☐ Increased traffic
    - ☐ Environmental degradation
    - ☐ Water and energy demand
    - ☐ Other (Please specify): None

Section D: Noise Pollution

11. **How concerned are you about noise pollution from the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☑ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
12. **Do you have any specific suggestions for mitigating noise pollution from the project?**
    - ☐ Yes (Please specify): _____
    - ☑ No

Section E: Traffic and Transportation

13. **How do you feel the project will affect traffic in the area?**
    - ☐ Significantly increase traffic
    - ☐ Slightly increase traffic
    - ☑ No impact
    - ☐ Reduce traffic
    - ☐ No opinion
14. **Do you have any specific suggestions for managing traffic and transportation related to the project?**
    - ☑ Yes (Please specify): _____
    - ☐ No

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Section F: Environmental Concerns

15. **How concerned are you about the environmental impact of the project?**
    - ☑ Very concerned
    - ☐ Concerned
    - ☐ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
16. **Do you have any specific suggestions for mitigating environmental impacts of the project?**
    - ☐ Yes (Please specify): _____
    - ☑ No

Section G: Community Engagement

17. **How would you prefer to receive updates about the project?**
    - ☐ Email
    - ☑ Community Meetings
    - ☐ Social Media
    - ☐ Newsletter
    - ☐ Other (Please specify): _____
18. **Would you be interested in participating in community meetings or focus groups related to the project?**
    - ☑ Yes
    - ☐ No
19. **Do you have any additional comments or suggestions regarding the project?**
    - COMMUNITY IMPOWERMENT
    - _____

Section H: Personal Impact

20. **How do you think the project will impact you personally?**
    - COMMUNITY IMPROVEMENT
    - _____

Thank you for your time and input. Your feedback is invaluable to us in ensuring the success and positive impact of the Nairobi Waldorf School Trust project on the community.

Date and Signature 3/7/2024 MK.

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TEL. NO. 0721997878

ESIA PUBLIC CONSULTATION QUESTIONNAIRE FOR NAIROBI WALDORF SCHOOL TRUST PROJECT

Section A: General Information

1. **Name:** FAITH NYAMBURA WAMBUI
2. ID number: 24371175
3. **Contact Information:**
   - **Phone Number:** 0710780297
   - **Email Address:**

Occupation:

Section B: Awareness and Perception

6. **How did you hear about the Nairobi Waldorf School Trust project?**
   - ☐ Newspaper
   - ☐ Social Media
   - ☑ Community Meeting
   - ☐ Word of Mouth
   - ☐ Other (Please specify): _____
7. **How well do you understand the objectives of the project?**
   - ☑ Very well
   - ☐ Well
   - ☐ Somewhat
   - ☐ Not at all
8. **What is your overall perception of the Nairobi Waldorf School Trust project?**
   - ☑ Very positive
   - ☐ Positive
   - ☐ Neutral
   - ☐ Negative
   - ☐ Very negative

Section C: Potential Impacts

9. **What do you think will be the most significant positive impact of the project on the community?** (Select all that apply)
   - ☑ Employment opportunities
   - ☑ Improved local business

- ☑ Enhanced educational facilities
- ☐ Increased property values
- ☐ Other (Please specify): _____

10. **What do you think will be the most significant negative impact of the project on the community?** (Select all that apply)
    - ☐ Noise pollution
    - ☐ Increased traffic
    - ☐ Environmental degradation
    - ☐ Water and energy demand
    - ☐ Other (Please specify): NONE

Section D: Noise Pollution

11. **How concerned are you about noise pollution from the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☑ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
12. **Do you have any specific suggestions for mitigating noise pollution from the project?**
    - ☐ Yes (Please specify): _____
    - ☑ No

Section E: Traffic and Transportation

13. **How do you feel the project will affect traffic in the area?**
    - ☐ Significantly increase traffic
    - ☐ Slightly increase traffic
    - ☑ No impact
    - ☐ Reduce traffic
    - ☐ No opinion
14. **Do you have any specific suggestions for managing traffic and transportation related to the project?**
    - ☑ Yes (Please specify): _____
    - ☐ No

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TEL. NO. 0721997876

Section F: Environmental Concerns

15. **How concerned are you about the environmental impact of the project?**
    - ☑ Very concerned
    - ☐ Concerned
    - ☐ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
16. **Do you have any specific suggestions for mitigating environmental impacts of the project?**
    - ☐ Yes (Please specify): _____
    - ☑ No

Section G: Community Engagement

17. **How would you prefer to receive updates about the project?**
    - ☐ Email
    - ☑ Community Meetings
    - ☐ Social Media
    - ☐ Newsletter
    - ☐ Other (Please specify): _____
18. **Would you be interested in participating in community meetings or focus groups related to the project?**
    - ☑ Yes
    - ☐ No
19. **Do you have any additional comments or suggestions regarding the project?**
    - Employment Opportunities
    -

Section H: Personal Impact

20. **How do you think the project will impact you personally?**
    - Community empowerment
    -

Thank you for your time and input. Your feedback is invaluable to us in ensuring the success and positive impact of the Nairobi Waldorf School Trust project on the community.

Date and Signature

23/07/2024

Devlink

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TEL. NO. 0721997876

ESIA PUBLIC CONSULTATION QUESTIONNAIRE FOR NAIROBI WALDORF SCHOOL TRUST PROJECT

Section A: General Information

1. **Name:** Franklin Corbitar
2. ID number: 31795075
3. **Contact Information:**
   - **Phone Number:** 0768211968
   - **Email Address:** - email ... po box 0768211968 Nairobi

Occupation:

Section B: Awareness and Perception

6. **How did you hear about the Nairobi Waldorf School Trust project?**
   - ☐ Newspaper
   - ☐ Social Media
   - ☑ Community Meeting
   - ☐ Word of Mouth
   - ☐ Other (Please specify): ______________________
7. **How well do you understand the objectives of the project?**
   - ☑ Very well
   - ☐ Well
   - ☐ Somewhat
   - ☐ Not at all
8. **What is your overall perception of the Nairobi Waldorf School Trust project?**
   - ☑ Very positive
   - ☐ Positive
   - ☐ Neutral
   - ☐ Negative
   - ☐ Very negative

Section C: Potential Impacts

9. **What do you think will be the most significant positive impact of the project on the community?** (Select all that apply)
   - ☑ Employment opportunities
   - ☐ Improved local business

- ☐ Enhanced educational facilities
- ☐ Increased property values
- ☐ Other (Please specify): _____

10. **What do you think will be the most significant negative impact of the project on the community?** (Select all that apply)
    - ☐ Noise pollution
    - ☐ Increased traffic
    - ☐ Environmental degradation
    - ☐ Water and energy demand
    - ☐ Other (Please specify): None it is a good project.

Section D: Noise Pollution

11. **How concerned are you about noise pollution from the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☐ Neutral
    - ☐ Not concerned
    - ☑ Not concerned at all
12. **Do you have any specific suggestions for mitigating noise pollution from the project?**
    - ☐ Yes (Please specify): Sound proofing
    - ☐ No

Section E: Traffic and Transportation

13. **How do you feel the project will affect traffic in the area?**
    - ☐ Significantly increase traffic
    - ☐ Slightly increase traffic
    - ☑ No impact
    - ☐ Reduce traffic
    - ☐ No opinion
14. **Do you have any specific suggestions for managing traffic and transportation related to the project?**
    - ☐ Yes (Please specify): _____
    - ☐ No

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TEL. NO. 0721997876

Section F: Environmental Concerns

15. **How concerned are you about the environmental impact of the project?**
    - ☑ Very concerned
    - ☐ Concerned
    - ☐ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
16. **Do you have any specific suggestions for mitigating environmental impacts of the project?**
    - ☐ Yes (Please specify): _____
    - ☑ No

Section G: Community Engagement

17. **How would you prefer to receive updates about the project?**
    - ☑ Email
    - ☐ Community Meetings
    - ☐ Social Media
    - ☐ Newsletter
    - ☐ Other (Please specify): _____
18. **Would you be interested in participating in community meetings or focus groups related to the project?**
    - ☑ Yes
    - ☐ No
19. **Do you have any additional comments or suggestions regarding the project?**
    - It is a good project.

Section H: Personal Impact

20. **How do you think the project will impact you personally?**
    - Good education for children in the community and exposure.

Thank you for your time and input. Your feedback is invaluable to us in ensuring the success and positive impact of the Nairobi Waldorf School Trust project on the community.

Date and Signature 27/1/2024.

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ESIA PUBLIC CONSULTATION QUESTIONNAIRE FOR NAIROBI WALDORF SCHOOL TRUST PROJECT

Section A: General Information

1. **Name:** Suapei Ole Parkite
2. ID number: 12655244
3. **Contact Information:**
   - **Phone Number:** 0714323337
   - **Email Address:** P.O. Box 0714323337

Occupation:

Section B: Awareness and Perception

6. **How did you hear about the Nairobi Waldorf School Trust project?**
   - ☐ Newspaper
   - ☐ Social Media
   - ☐ Community Meeting
   - ☐ Word of Mouth
   - ☐ Other (Please specify): _____
7. **How well do you understand the objectives of the project?**
   - ☑ Very well
   - ☐ Well
   - ☐ Somewhat
   - ☐ Not at all
8. **What is your overall perception of the Nairobi Waldorf School Trust project?**
   - ☑ Very positive
   - ☐ Positive
   - ☐ Neutral
   - ☐ Negative
   - ☐ Very negative

Section C: Potential Impacts

9. **What do you think will be the most significant positive impact of the project on the community?** (Select all that apply)
   - ☑ Employment opportunities
   - ☐ Improved local business

- ☐ Enhanced educational facilities
- ☐ Increased property values
- ☐ Other (Please specify): _____

10. **What do you think will be the most significant negative impact of the project on the community?** (Select all that apply)
    - ☐ Noise pollution
    - ☐ Increased traffic
    - ☐ Environmental degradation
    - ☐ Water and energy demand
    - ☐ Other (Please specify): None it is a good project

Section D: Noise Pollution

11. **How concerned are you about noise pollution from the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☐ Neutral
    - ☐ Not concerned
    - ☑ Not concerned at all
12. **Do you have any specific suggestions for mitigating noise pollution from the project?**
    - ☐ Yes (Please specify): Sound proofing
    - ☐ No

Section E: Traffic and Transportation

13. **How do you feel the project will affect traffic in the area?**
    - ☐ Significantly increase traffic
    - ☐ Slightly increase traffic
    - ☑ No impact
    - ☐ Reduce traffic
    - ☐ No opinion
14. **Do you have any specific suggestions for managing traffic and transportation related to the project?**
    - ☐ Yes (Please specify): _____
    - ☐ No

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Section F: Environmental Concerns

15. **How concerned are you about the environmental impact of the project?**
    - ☑ Very concerned
    - ☐ Concerned
    - ☐ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
16. **Do you have any specific suggestions for mitigating environmental impacts of the project?**
    - ☐ Yes (Please specify): _____
    - ☑ No

Section G: Community Engagement

17. **How would you prefer to receive updates about the project?**
    - ☑ Email
    - ☐ Community Meetings
    - ☐ Social Media
    - ☐ Newsletter
    - ☐ Other (Please specify): _____
18. **Would you be interested in participating in community meetings or focus groups related to the project?**
    - ☑ Yes
    - ☐ No
19. **Do you have any additional comments or suggestions regarding the project?**
    - It is a good project.

Section H: Personal Impact

20. **How do you think the project will impact you personally?**
    - Provide a chance for children to get good education.

Thank you for your time and input. Your feedback is invaluable to us in ensuring the success and positive impact of the Nairobi Waldorf School Trust project on the community.

Date and Signature 3/7/2024.

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ESIA PUBLIC CONSULTATION QUESTIONNAIRE FOR NAIROBI WALDORF SCHOOL TRUST PROJECT

Section A: General Information

1. **Name:** SUSAN KIURA
2. ID number: 9062354
3. **Contact Information:**
   - **Phone Number:** 0708879355
   - **Email Address:**

Occupation:

Section B: Awareness and Perception

6. **How did you hear about the Nairobi Waldorf School Trust project?**
   - ☐ Newspaper
   - ☐ Social Media
   - ☐ Community Meeting
   - ☐ Word of Mouth ✓
   - ☐ Other (Please specify): _____
7. **How well do you understand the objectives of the project?**
   - ☐ Very well
   - ☐ Well ✓
   - ☐ Somewhat
   - ☐ Not at all
8. **What is your overall perception of the Nairobi Waldorf School Trust project?**
   - ☐ Very positive ✓
   - ☐ Positive
   - ☐ Neutral
   - ☐ Negative
   - ☐ Very negative

Section C: Potential Impacts

9. **What do you think will be the most significant positive impact of the project on the community?** (Select all that apply)
   - ☐ Employment opportunities ✓
   - ☐ Improved local business ✓

- ☐ Enhanced educational facilities
- ☐ Increased property values
- ☐ Other (Please specify): _____

10. **What do you think will be the most significant negative impact of the project on the community?** (Select all that apply)
    - ☐ Noise pollution
    - ☐ Increased traffic
    - ☐ Environmental degradation
    - ☐ Water and energy demand
    - ☐ Other (Please specify): _____

Section D: Noise Pollution

11. **How concerned are you about noise pollution from the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☐ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
12. **Do you have any specific suggestions for mitigating noise pollution from the project?**
    - ☐ Yes (Please specify): _____
    - ☐ No

Section E: Traffic and Transportation

13. **How do you feel the project will affect traffic in the area?**
    - ☐ Significantly increase traffic
    - ☐ Slightly increase traffic
    - ☐ No impact
    - ☐ Reduce traffic
    - ☐ No opinion
14. **Do you have any specific suggestions for managing traffic and transportation related to the project?**
    - ☐ Yes (Please specify): _____
    - ☐ No

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Section F: Environmental Concerns

15. **How concerned are you about the environmental impact of the project?**
    - ☐ Very concerned
    - ☐ Concerned ✓
    - ☐ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
16. **Do you have any specific suggestions for mitigating environmental impacts of the project?**
    - ☐ Yes (Please specify): _____
    - ☐ No ✓

Section G: Community Engagement

17. **How would you prefer to receive updates about the project?**
    - ☐ Email
    - ☐ Community Meetings ✓
    - ☐ Social Media ✓
    - ☐ Newsletter
    - ☐ Other (Please specify): _____
18. **Would you be interested in participating in community meetings or focus groups related to the project?**
    - ☐ Yes ✓
    - ☐ No
19. **Do you have any additional comments or suggestions regarding the project?**
    - _____
    - _____

Section H: Personal Impact

20. **How do you think the project will impact you personally?**
    - _____
    - _____

Thank you for your time and input. Your feedback is invaluable to us in ensuring the success and positive impact of the Nairobi Waldorf School Trust project on the community.

Date and Signature _____

Devlink Resources Consultants
P. O. Box 76065-00508, Nairobi
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ESIA PUBLIC CONSULTATION QUESTIONNAIRE FOR NAIROBI WALDORF SCHOOL TRUST PROJECT

Section A: General Information

1. **Name:**
   MARTIN SAKWA
2. ID number:
   30585903
3. **Contact Information:**
   - **Phone Number:** 0794404912
   - **Email Address:** martinsakwa887@gmail.com

Occupation: KAREN

Section B: Awareness and Perception

6. **How did you hear about the Nairobi Waldorf School Trust project?**
   - ☐ Newspaper
   - ☐ Social Media
   - ☑ Community Meeting
   - ☐ Word of Mouth
   - ☐ Other (Please specify): _____
7. **How well do you understand the objectives of the project?**
   - ☑ Very well
   - ☐ Well
   - ☐ Somewhat
   - ☐ Not at all
8. **What is your overall perception of the Nairobi Waldorf School Trust project?**
   - ☑ Very positive
   - ☐ Positive
   - ☐ Neutral
   - ☐ Negative
   - ☐ Very negative

Section C: Potential Impacts

9. **What do you think will be the most significant positive impact of the project on the community?** (Select all that apply)
   - ☑ Employment opportunities
   - ☑ Improved local business

- ☑ Enhanced educational facilities
- ☑ Increased property values
- ☐ Other (Please specify): _____

10. **What do you think will be the most significant negative impact of the project on the community?** (Select all that apply)
    - ☑ Noise pollution
    - ☐ Increased traffic
    - ☐ Environmental degradation
    - ☐ Water and energy demand
    - ☐ Other (Please specify): _____

Section D: Noise Pollution

11. **How concerned are you about noise pollution from the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☑ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
12. **Do you have any specific suggestions for mitigating noise pollution from the project?**
    - ☐ Yes (Please specify): _____
    - ☑ No

Section E: Traffic and Transportation

13. **How do you feel the project will affect traffic in the area?**
    - ☐ Significantly increase traffic
    - ☑ Slightly increase traffic
    - ☐ No impact
    - ☐ Reduce traffic
    - ☐ No opinion
14. **Do you have any specific suggestions for managing traffic and transportation related to the project?**
    - ☐ Yes (Please specify): _____
    - ☑ No

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TEL. NO. 0721997876

Section F: Environmental Concerns

15. **How concerned are you about the environmental impact of the project?**
    - ☑ Very concerned
    - ☐ Concerned
    - ☐ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
16. **Do you have any specific suggestions for mitigating environmental impacts of the project?**
    - ☑ Yes (Please specify): _____
    - ☐ No

Section G: Community Engagement

17. **How would you prefer to receive updates about the project?**
    - ☑ Email
    - ☐ Community Meetings
    - ☐ Social Media
    - ☐ Newsletter
    - ☐ Other (Please specify): _____
18. **Would you be interested in participating in community meetings or focus groups related to the project?**
    - ☑ Yes
    - ☐ No
19. **Do you have any additional comments or suggestions regarding the project?**
    - Since you have met all County guidline.
    - I second that the project to start now

Section H: Personal Impact

20. **How do you think the project will impact you personally?**
    - It creates job opportunities to me and to
    - My community.

Thank you for your time and input. Your feedback is invaluable to us in ensuring the success and positive impact of the Nairobi Waldorf School Trust project on the community.

Date and Signature _____

Devlink Resources Consultants
P. O. Box 76065-00508, Nairobi
TEL. NO. 0721997876

ESIA PUBLIC CONSULTATION QUESTIONNAIRE FOR NAIROBI WALDORF SCHOOL TRUST PROJECT

Section A: General Information

1. **Name:**
2. ID number:
3. **Contact Information:**
   - **Phone Number:**
   - **Email Address:**

Occupation:

Section B: Awareness and Perception

6. **How did you hear about the Nairobi Waldorf School Trust project?**
   - ☐ Newspaper
   - ☐ Social Media
   - ☐ Community Meeting
   - ☐ Word of Mouth
   - ☐ Other (Please specify): _____
7. **How well do you understand the objectives of the project?**
   - ☐ Very well
   - ☐ Well
   - ☐ Somewhat
   - ☐ Not at all
8. **What is your overall perception of the Nairobi Waldorf School Trust project?**
   - ☐ Very positive
   - ☐ Positive
   - ☐ Neutral
   - ☐ Negative
   - ☐ Very negative

Section C: Potential Impacts

9. **What do you think will be the most significant positive impact of the project on the community?** (Select all that apply)
   - ☐ Employment opportunities
   - ☐ Improved local business

- [x] Enhanced educational facilities
- [ ] Increased property values
- [ ] Other (Please specify): _____

10. **What do you think will be the most significant negative impact of the project on the community?** (Select all that apply)
    - [x] Noise pollution
    - [ ] Increased traffic
    - [ ] Environmental degradation
    - [ ] Water and energy demand
    - [ ] Other (Please specify): _____

Section D: Noise Pollution

11. **How concerned are you about noise pollution from the project?**
    - [ ] Very concerned
    - [x] Concerned
    - [ ] Neutral
    - [ ] Not concerned
    - [ ] Not concerned at all
12. **Do you have any specific suggestions for mitigating noise pollution from the project?**
    - [ ] Yes (Please specify): Someone Someone's [illegible] not [illegible]
    - [ ] No

Section E: Traffic and Transportation

13. **How do you feel the project will affect traffic in the area?**
    - [x] Significantly increase traffic
    - [ ] Slightly increase traffic
    - [ ] No impact
    - [ ] Reduce traffic
    - [ ] No opinion
14. **Do you have any specific suggestions for managing traffic and transportation related to the project?**
    - [ ] Yes (Please specify): _____
    - [x] No

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TEL. NO. 0721997876

Section F: Environmental Concerns

15. **How concerned are you about the environmental impact of the project?**
    - ☐ Very concerned
    - ☑ Concerned
    - ☐ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
16. **Do you have any specific suggestions for mitigating environmental impacts of the project?**
    - ☐ Yes (Please specify): _____
    - ☑ No

Section G: Community Engagement

17. **How would you prefer to receive updates about the project?**
    - ☐ Email
    - ☑ Community Meetings
    - ☐ Social Media
    - ☐ Newsletter
    - ☐ Other (Please specify): _____
18. **Would you be interested in participating in community meetings or focus groups related to the project?**
    - ☑ Yes
    - ☐ No
19. **Do you have any additional comments or suggestions regarding the project?**
    - _____
    - Nil Nothing -

Section H: Personal Impact

20. **How do you think the project will impact you personally?**
    - _____
    - _____

Thank you for your time and input. Your feedback is invaluable to us in ensuring the success and positive impact of the Nairobi Waldorf School Trust project on the community.

Date and Signature 3rd June/2024

Devlink Resources Consultants
P. O. Box 76065-00508, Nairobi
TEL. NO. 0721997876

ESIA PUBLIC CONSULTATION QUESTIONNAIRE FOR NAIROBI WALDORF SCHOOL TRUST PROJECT

Section A: General Information

1. **Name:** Muria Nge Kera
2. ID number: 0726914841
3. **Contact Information:**
   - **Phone Number:**
   - **Email Address:**

Occupation:

Section B: Awareness and Perception

6. **How did you hear about the Nairobi Waldorf School Trust project?**
   - ☐ Newspaper
   - ☐ Social Media
   - ☐ Community Meeting ✓
   - ☐ Word of Mouth
   - ☐ Other (Please specify): _____
7. **How well do you understand the objectives of the project?**
   - ☐ Very well ✓
   - ☐ Well
   - ☐ Somewhat
   - ☐ Not at all
8. **What is your overall perception of the Nairobi Waldorf School Trust project?**
   - ☐ Very positive ✓
   - ☐ Positive
   - ☐ Neutral
   - ☐ Negative
   - ☐ Very negative

Section C: Potential Impacts

9. **What do you think will be the most significant positive impact of the project on the community?** (Select all that apply)
   - ☐ Employment opportunities ✓
   - ☐ Improved local business

- ☐ Enhanced educational facilities
- ☐ Increased property values
- ☐ Other (Please specify): _____

10. **What do you think will be the most significant negative impact of the project on the community?** (Select all that apply)
    - ☐ Noise pollution
    - ☐ Increased traffic
    - ☐ Environmental degradation
    - ☐ Water and energy demand
    - ☐ Other (Please specify): It is good

Section D: Noise Pollution

11. **How concerned are you about noise pollution from the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☐ Neutral
    - ☐ Not concerned ✓
    - ☐ Not concerned at all
12. **Do you have any specific suggestions for mitigating noise pollution from the project?**
    - ☐ Yes (Please specify): _____
    - ☐ No

Section E: Traffic and Transportation

13. **How do you feel the project will affect traffic in the area?**
    - ☐ Significantly increase traffic
    - ☐ Slightly increase traffic
    - ☐ No impact ✓
    - ☐ Reduce traffic
    - ☐ No opinion
14. **Do you have any specific suggestions for managing traffic and transportation related to the project?**
    - ☐ Yes (Please specify): _____
    - ☐ No

Section F: Environmental Concerns

15. **How concerned are you about the environmental impact of the project?**
    - ☐ Very concerned ✓
    - ☐ Concerned
    - ☐ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
16. **Do you have any specific suggestions for mitigating environmental impacts of the project?**
    - ☐ Yes (Please specify): _____
    - ☐ No

Section G: Community Engagement

17. **How would you prefer to receive updates about the project?**
    - ☐ Email
    - ☐ Community Meetings ✓
    - ☐ Social Media
    - ☐ Newsletter
    - ☐ Other (Please specify): _____
18. **Would you be interested in participating in community meetings or focus groups related to the project?**
    - ☐ Yes ✓
    - ☐ No
19. **Do you have any additional comments or suggestions regarding the project?**

    Everything Well Served

Section H: Personal Impact

20. **How do you think the project will impact you personally?**

    Nice Idea

Thank you for your time and input. Your feedback is invaluable to us in ensuring the success and positive impact of the Nairobi Waldorf School Trust project on the community.

Date and Signature 3/7/2024

Devlink Resources Consultants
P. O. Box 76065-00508, Nairobi
TEL. NO. 0721997876

ESIA PUBLIC CONSULTATION QUESTIONNAIRE FOR NAIROBI WALDORF SCHOOL TRUST PROJECT

Section A: General Information

1. **Name:** FATUMA GODANA
2. ID number: 26236870
3. **Contact Information:**
   - **Phone Number:** 0746669619
   - **Email Address:**

Occupation: 1.

Section B: Awareness and Perception

6. **How did you hear about the Nairobi Waldorf School Trust project?**
   - ☐ Newspaper
   - ☐ Social Media
   - ☐ Community Meeting ✓
   - ☐ Word of Mouth
   - ☐ Other (Please specify): _____
7. **How well do you understand the objectives of the project?**
   - ☐ Very well ✓
   - ☐ Well
   - ☐ Somewhat
   - ☐ Not at all
8. **What is your overall perception of the Nairobi Waldorf School Trust project?**
   - ☐ Very positive ✓
   - ☐ Positive
   - ☐ Neutral
   - ☐ Negative
   - ☐ Very negative

Section C: Potential Impacts

9. **What do you think will be the most significant positive impact of the project on the community?** (Select all that apply)
   - ☐ Employment opportunities ✓
   - ☐ Improved local business

- ☐ Enhanced educational facilities
- ☐ Increased property values
- ☐ Other (Please specify): _____

10. **What do you think will be the most significant negative impact of the project on the community?** (Select all that apply)
    - ☐ Noise pollution
    - ☐ Increased traffic
    - ☐ Environmental degradation
    - ☐ Water and energy demand
    - ☐ Other (Please specify): It is good

Section D: Noise Pollution

11. **How concerned are you about noise pollution from the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☐ Neutral
    - ☑ Not concerned
    - ☐ Not concerned at all
12. **Do you have any specific suggestions for mitigating noise pollution from the project?**
    - ☐ Yes (Please specify): _____
    - ☐ No

Section E: Traffic and Transportation

13. **How do you feel the project will affect traffic in the area?**
    - ☐ Significantly increase traffic
    - ☐ Slightly increase traffic
    - ☑ No impact
    - ☐ Reduce traffic
    - ☐ No opinion
14. **Do you have any specific suggestions for managing traffic and transportation related to the project?**
    - ☐ Yes (Please specify): _____
    - ☐ No

Devlink Resources Consultants
P. O. Box 76065-00508, Nairobi
TEL. NO. 0721997876

Section F: Environmental Concerns

15. **How concerned are you about the environmental impact of the project?**
    - ☑ Very concerned
    - ☐ Concerned
    - ☐ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
16. **Do you have any specific suggestions for mitigating environmental impacts of the project?**
    - ☐ Yes (Please specify): _____
    - ☐ No

Section G: Community Engagement

17. **How would you prefer to receive updates about the project?**
    - ☐ Email
    - ☑ Community Meetings
    - ☐ Social Media
    - ☐ Newsletter
    - ☐ Other (Please specify): _____
18. **Would you be interested in participating in community meetings or focus groups related to the project?**
    - ☑ Yes
    - ☐ No
19. **Do you have any additional comments or suggestions regarding the project?**
    - Building work good

Section H: Personal Impact

20. **How do you think the project will impact you personally?**
    - None

Thank you for your time and input. Your feedback is invaluable to us in ensuring the success and positive impact of the Nairobi Waldorf School Trust project on the community.

Date and Signature 3/7/2024 Lucia

Devlink Resources Consultants
P. O. Box 76065-00508, Nairobi
TEL. NO. 0721997876

ESIA PUBLIC CONSULTATION QUESTIONNAIRE FOR NAIROBI WALDORF SCHOOL TRUST PROJECT

Section A: General Information

1. **Name:** Mercy Ndegwa
2. ID number: 20234876
3. **Contact Information:**
   - **Phone Number:** 0723423101
   - **Email Address:** Mkanyi@gmail.com

Occupation:

Section B: Awareness and Perception

6. **How did you hear about the Nairobi Waldorf School Trust project?**
   - ☐ Newspaper
   - ☐ Social Media
   - ☐ Community Meeting
   - ☐ Word of Mouth
   - ☑ Other (Please specify): Parent
7. **How well do you understand the objectives of the project?**
   - ☑ Very well
   - ☐ Well
   - ☐ Somewhat
   - ☐ Not at all
8. **What is your overall perception of the Nairobi Waldorf School Trust project?**
   - ☑ Very positive
   - ☐ Positive
   - ☐ Neutral
   - ☐ Negative
   - ☐ Very negative

Section C: Potential Impacts

9. **What do you think will be the most significant positive impact of the project on the community?** (Select all that apply)
   - ☑ Employment opportunities
   - ☐ Improved local business

- ☐ Enhanced educational facilities
- ☐ Increased property values
- ☐ Other (Please specify): _____

10. **What do you think will be the most significant negative impact of the project on the community?** (Select all that apply)
    - ☐ Noise pollution
    - ☐ Increased traffic
    - ☐ Environmental degradation
    - ☑ Water and energy demand
    - ☐ Other (Please specify): _____

Section D: Noise Pollution

11. **How concerned are you about noise pollution from the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☐ Neutral
    - ☑ Not concerned
    - ☐ Not concerned at all
12. **Do you have any specific suggestions for mitigating noise pollution from the project?**
    - ☑ Yes (Please specify): Noise barriers + school management by school schedule.
    - ☐ No

Section E: Traffic and Transportation

13. **How do you feel the project will affect traffic in the area?**
    - ☐ Significantly increase traffic
    - ☑ Slightly increase traffic
    - ☐ No impact
    - ☐ Reduce traffic
    - ☐ No opinion
14. **Do you have any specific suggestions for managing traffic and transportation related to the project?**
    - ☑ Yes (Please specify): Traffic management by school security.
    - ☐ No

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TEL. NO. 0721997876

Section F: Environmental Concerns

15. **How concerned are you about the environmental impact of the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☐ Neutral
    - ☐ Not concerned
    - ☑ Not concerned at all
16. **Do you have any specific suggestions for mitigating environmental impacts of the project?**
    - ☑ Yes (Please specify): Maintain natural setting with minimum or no negative impact
    - ☐ No

Section G: Community Engagement

17. **How would you prefer to receive updates about the project?**
    - ☑ Email
    - ☐ Community Meetings
    - ☐ Social Media
    - ☐ Newsletter
    - ☐ Other (Please specify): _____
18. **Would you be interested in participating in community meetings or focus groups related to the project?**
    - ☑ Yes
    - ☐ No
19. **Do you have any additional comments or suggestions regarding the project?**
    - I support it fully.

Section H: Personal Impact

20. **How do you think the project will impact you personally?**
    - Easy access to quality education and community

Thank you for your time and input. Your feedback is invaluable to us in ensuring the success and positive impact of the Nairobi Waldorf School Trust project on the community.

Date and Signature

Devlink Resources Consultants
P. O. Box 76065-00508, Nairobi
TEL. NO. 0721997876

ESIA PUBLIC CONSULTATION QUESTIONNAIRE FOR NAIROBI WALDORF SCHOOL TRUST PROJECT

Section A: General Information

1. **Name:** Eunice Wambui Gatharu
2. ID number: 22973300
3. **Contact Information:**
   - **Phone Number:** 0721877787
   - **Email Address:** gerniagat@gmail.com

Occupation:

Section B: Awareness and Perception

6. **How did you hear about the Nairobi Waldorf School Trust project?**
   - ☐ Newspaper
   - ☐ Social Media
   - ☑ Community Meeting
   - ☐ Word of Mouth
   - ☐ Other (Please specify): _____
7. **How well do you understand the objectives of the project?**
   - ☑ Very well
   - ☐ Well
   - ☐ Somewhat
   - ☐ Not at all
8. **What is your overall perception of the Nairobi Waldorf School Trust project?**
   - ☑ Very positive
   - ☐ Positive
   - ☐ Neutral
   - ☐ Negative
   - ☐ Very negative

Section C: Potential Impacts

9. **What do you think will be the most significant positive impact of the project on the community?** (Select all that apply)
   - ☑ Employment opportunities
   - ☑ Improved local business

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TEL. NO. 0721997876

- ☑ Enhanced educational facilities
- ☐ Increased property values
- ☐ Other (Please specify): _____

10. **What do you think will be the most significant negative impact of the project on the community?** (Select all that apply)
    - ☐ Noise pollution
    - ☐ Increased traffic
    - ☐ Environmental degradation
    - ☐ Water and energy demand
    - ☐ Other (Please specify): None

Section D: Noise Pollution

11. **How concerned are you about noise pollution from the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☑ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
12. **Do you have any specific suggestions for mitigating noise pollution from the project?**
    - ☐ Yes (Please specify): _____
    - ☑ No

Section E: Traffic and Transportation

13. **How do you feel the project will affect traffic in the area?**
    - ☐ Significantly increase traffic
    - ☐ Slightly increase traffic
    - ☑ No impact
    - ☐ Reduce traffic
    - ☐ No opinion
14. **Do you have any specific suggestions for managing traffic and transportation related to the project?**
    - ☑ Yes (Please specify): Incase of any better planning & forecasting.
    - ☐ No

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TEL. NO. 0721997876

Section F: Environmental Concerns

15. **How concerned are you about the environmental impact of the project?**
    - ☑ Very concerned
    - ☐ Concerned
    - ☐ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
16. **Do you have any specific suggestions for mitigating environmental impacts of the project?**
    - ☐ Yes (Please specify): _____
    - ☑ No

Section G: Community Engagement

17. **How would you prefer to receive updates about the project?**
    - ☐ Email
    - ☑ Community Meetings
    - ☐ Social Media
    - ☐ Newsletter
    - ☐ Other (Please specify): _____
18. **Would you be interested in participating in community meetings or focus groups related to the project?**
    - ☑ Yes
    - ☐ No
19. **Do you have any additional comments or suggestions regarding the project?**
    - The Project should be to empower the Community by eradicating poverty through job opportunities.

Section H: Personal Impact

20. **How do you think the project will impact you personally?**
    - Educating the community even on health issues
    - Job creation to the nearby community

Thank you for your time and input. Your feedback is invaluable to us in ensuring the success and positive impact of the Nairobi Waldorf School Trust project on the community.

Date and Signature 3/7/2024

Devlink Resources Consultants
P. O. Box 76065-00508, Nairobi
TEL. NO. 0721997876

ESIA PUBLIC CONSULTATION QUESTIONNAIRE FOR NAIROBI WALDORF SCHOOL TRUST PROJECT

Section A: General Information

1. **Name:** SUSAN NYAGAH
2. ID number: 10810560
3. **Contact Information:**
   - **Phone Number:** 0722801017
   - **Email Address:** weveti@gmail.com

Occupation:

Section B: Awareness and Perception

6. **How did you hear about the Nairobi Waldorf School Trust project?**
   - ☐ Newspaper
   - ☐ Social Media
   - ☐ Community Meeting
   - ☐ Word of Mouth
   - ☐ Other (Please specify): Parent of School
7. **How well do you understand the objectives of the project?**
   - ☑ Very well
   - ☐ Well
   - ☐ Somewhat
   - ☐ Not at all
8. **What is your overall perception of the Nairobi Waldorf School Trust project?**
   - ☑ Very positive
   - ☐ Positive
   - ☐ Neutral
   - ☐ Negative
   - ☐ Very negative

Section C: Potential Impacts

9. **What do you think will be the most significant positive impact of the project on the community?** (Select all that apply)
   - ☑ Employment opportunities
   - ☑ Improved local business

- ☑ Enhanced educational facilities
- ☑ Increased property values
- ☐ Other (Please specify): _____

10. **What do you think will be the most significant negative impact of the project on the community?** (Select all that apply)
    - ☑ Noise pollution
    - ☑ Increased traffic
    - ☐ Environmental degradation
    - ☐ Water and energy demand
    - ☐ Other (Please specify): _____

Section D: Noise Pollution

11. **How concerned are you about noise pollution from the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☑ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
12. **Do you have any specific suggestions for mitigating noise pollution from the project?**
    - ☑ Yes (Please specify): HILLS / TREE COVER
    - ☐ No

Section E: Traffic and Transportation

13. **How do you feel the project will affect traffic in the area?**
    - ☐ Significantly increase traffic
    - ☑ Slightly increase traffic School Buses used 4 months of holiday
    - ☐ No impact
    - ☐ Reduce traffic
    - ☐ No opinion
14. **Do you have any specific suggestions for managing traffic and transportation related to the project?**
    - ☐ Yes (Please specify): _____
    - ☑ No

Section F: Environmental Concerns

15. **How concerned are you about the environmental impact of the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☑ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
16. **Do you have any specific suggestions for mitigating environmental impacts of the project?**
    - ☐ Yes (Please specify): NWST is handling all well.
    - ☑ No

Section G: Community Engagement

17. **How would you prefer to receive updates about the project?**
    - ☑ Email
    - ☑ Community Meetings
    - ☑ Social Media
    - ☑ Newsletter
    - ☐ Other (Please specify): _____
18. **Would you be interested in participating in community meetings or focus groups related to the project?**
    - ☑ Yes
    - ☐ No
19. **Do you have any additional comments or suggestions regarding the project?**
    - Collaborative development.

Section H: Personal Impact

20. **How do you think the project will impact you personally?**
    - Positively

Thank you for your time and input. Your feedback is invaluable to us in ensuring the success and positive impact of the Nairobi Waldorf School Trust project on the community.

Date and Signature 03/07/2024 Joseph

Devlink Resources Consultants
P. O. Box 76065-00508, Nairobi
TEL. NO. 0721997876

ESIA PUBLIC CONSULTATION QUESTIONNAIRE FOR NAIROBI WALDORF SCHOOL TRUST PROJECT

Section A: General Information

1. **Name:** NOAH JEPCHOGE
2. ID number: 11778609
3. **Contact Information:**
   - **Phone Number:** 0712591782
   - **Email Address:** noahsfcup@gmail

Occupation:

Section B: Awareness and Perception

6. **How did you hear about the Nairobi Waldorf School Trust project?**
   - ☐ Newspaper
   - ☐ Social Media
   - ☐ Community Meeting
   - ☐ Word of Mouth
   - ☐ Other (Please specify): From MCA Kawa office
7. **How well do you understand the objectives of the project?**
   - ☐ Very well
   - ☐ Well
   - ☐ Somewhat ✓
   - ☐ Not at all
8. **What is your overall perception of the Nairobi Waldorf School Trust project?**
   - ☐ Very positive ✓
   - ☐ Positive
   - ☐ Neutral
   - ☐ Negative
   - ☐ Very negative

Section C: Potential Impacts

9. **What do you think will be the most significant positive impact of the project on the community?** (Select all that apply)
   - ☐ Employment opportunities ✓
   - ☐ Improved local business

- ☐ Enhanced educational facilities
- ☐ Increased property values
- ☐ Other (Please specify): _____

10. **What do you think will be the most significant negative impact of the project on the community?** (Select all that apply)
    - ☐ Noise pollution
    - ☐ Increased traffic
    - ☐ Environmental degradation
    - ☐ Water and energy demand
    - ☐ Other (Please specify): no negative

Section D: Noise Pollution

11. **How concerned are you about noise pollution from the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☐ Neutral ✓
    - ☐ Not concerned
    - ☐ Not concerned at all
12. **Do you have any specific suggestions for mitigating noise pollution from the project?**
    - ☐ Yes (Please specify): _____
    - ☐ No ✓

Section E: Traffic and Transportation

13. **How do you feel the project will affect traffic in the area?**
    - ☐ Significantly increase traffic
    - ☐ Slightly increase traffic
    - ☐ No impact ✓
    - ☐ Reduce traffic
    - ☐ No opinion
14. **Do you have any specific suggestions for managing traffic and transportation related to the project?**
    - ☐ Yes (Please specify): _____
    - ☐ No ✓

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P. O. Box 76065-00508, Nairobi
TEL. NO. 0721997876

Section F: Environmental Concerns

15. **How concerned are you about the environmental impact of the project?**
   - ☐ Very concerned
   - ☐ Concerned
   - ☐ Neutral ✓
   - ☐ Not concerned
   - ☐ Not concerned at all

16. **Do you have any specific suggestions for mitigating environmental impacts of the project?**
   - ☐ Yes (Please specify): ______________________
   - ☐ No ✓

Section G: Community Engagement

17. **How would you prefer to receive updates about the project?**
   - ☐ Email
   - ☐ Community Meetings
   - ☐ Social Media
   - ☐ Newsletter
   - ☐ Other (Please specify): Whatsapp group

18. **Would you be interested in participating in community meetings or focus groups related to the project?**
   - ☐ Yes ✓
   - ☐ No

19. **Do you have any additional comments or suggestions regarding the project?**
   - employment for all as most of us have children [illegible] special [illegible]
   - [illegible] that they have been adopted into a family then in the
   process the parents [illegible] their [illegible]

Section H: Personal Impact

20. **How do you think the project will impact you personally?**
   - Am a good care giver/Nurse Assistant and a foster parent
   - that means I have adopted two boys. Looking for a job as
   a care giver or any job available. [illegible] with two boys
   in grade 3 and [illegible] 3, if I get the job I will be thankful.

Thank you for your time and input. Your feedback is invaluable to us in ensuring the success and positive impact of the Nairobi Waldorf School Trust project on the community.

Date and Signature [signature] 3/7/024

Devlink Resources Consultants
P. O. Box 76065-00508, Nairobi
TEL. NO. 0721997876

ESIA PUBLIC CONSULTATION QUESTIONNAIRE FOR NAIROBI WALDORF SCHOOL TRUST PROJECT

Section A: General Information

1. **Name:** Mohamed Godana Dillo
2. ID number: 25300957
3. **Contact Information:**
   - **Phone Number:** 0728064074
   - **Email Address:** godana.mohamed@gmail.com

Occupation:

Section B: Awareness and Perception

6. **How did you hear about the Nairobi Waldorf School Trust project?**
   - ☐ Newspaper
   - ☐ Social Media
   - ☐ Community Meeting ✓
   - ☐ Word of Mouth
   - ☐ Other (Please specify): _____
7. **How well do you understand the objectives of the project?**
   - ☐ Very well ✓
   - ☐ Well
   - ☐ Somewhat
   - ☐ Not at all
8. **What is your overall perception of the Nairobi Waldorf School Trust project?**
   - ☐ Very positive ✓
   - ☐ Positive
   - ☐ Neutral
   - ☐ Negative
   - ☐ Very negative

Section C: Potential Impacts

9. **What do you think will be the most significant positive impact of the project on the community?** (Select all that apply)
   - ☐ Employment opportunities ✓
   - ☐ Improved local business

- ☐ Enhanced educational facilities
- ☐ Increased property values
- ☐ Other (Please specify): _____

10. **What do you think will be the most significant negative impact of the project on the community?** (Select all that apply)
    - ☐ Noise pollution
    - ☐ Increased traffic
    - ☐ Environmental degradation
    - ☐ Water and energy demand
    - ☐ Other (Please specify): ~~None~~ ND Negative Impact

Section D: Noise Pollution

11. **How concerned are you about noise pollution from the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☐ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all ✓
12. **Do you have any specific suggestions for mitigating noise pollution from the project?**
    - ☐ Yes (Please specify): _____
    - ☐ No

Section E: Traffic and Transportation

13. **How do you feel the project will affect traffic in the area?**
    - ☐ Significantly increase traffic
    - ☐ Slightly increase traffic
    - ☐ No impact ✓
    - ☐ Reduce traffic
    - ☐ No opinion
14. **Do you have any specific suggestions for managing traffic and transportation related to the project?**
    - ☐ Yes (Please specify): _____
    - ☐ No

Devlink Resources Consultants
P. O. Box 76065-00508, Nairobi
TEL. NO. 0721997876

Section F: Environmental Concerns

15. **How concerned are you about the environmental impact of the project?**
    - ☐ Very concerned
    - ☐ Concerned
    - ☐ Neutral
    - ☐ Not concerned
    - ☐ Not concerned at all
16. **Do you have any specific suggestions for mitigating environmental impacts of the project?**
    - ☐ Yes (Please specify): _____
    - ☑ No

Section G: Community Engagement

17. **How would you prefer to receive updates about the project?**
    - ☑ Email
    - ☐ Community Meetings
    - ☐ Social Media
    - ☐ Newsletter
    - ☐ Other (Please specify): _____
18. **Would you be interested in participating in community meetings or focus groups related to the project?**
    - ☑ Yes
    - ☐ No
19. **Do you have any additional comments or suggestions regarding the project?**
    - It's good for our community, education and employments
    - _____

Section H: Personal Impact

20. **How do you think the project will impact you personally?**
    - employments and Educations
    - _____

Thank you for your time and input. Your feedback is invaluable to us in ensuring the success and positive impact of the Nairobi Waldorf School Trust project on the community.

Date and Signature _____

g) Project Approval Documents by the County Government Physical Planning Department

FORM PLUPA/DC/8

SN: SUB-001920

City Hall Way, City Hall
www.nairobi.go.ke

P.O.Box 30075-00100
Nairobi, KENYA

NAIROBI CITY COUNTY

THE PHYSICAL AND LAND USE PLANNING ACT (No. 13 of 2019)

Registered Number of Application **PLUPA-BPM-000740-N**

NOTIFICATION OF APPROVAL OF APPLICATION

TO **Nairobi Waldorf School**

Through **Urko Sanchez Mateo**
Architect, Reg. No: A1291

Your plan Reg. **PLUPA-BPM-000740-N** submitted on **18th, August 2022**

For permission to develop **School Campus with Pre-Primary, Primary and Secondary Schools** on

L.R. / Parcel No **7336/76** with Coordinates **-1.3188, 36.7081**

Situated in **Karen, Karen** in **Langata** Sub-county

Along **Nandi Road** has been **APPROVED** on **6th, December 2022**

By the Urban Planning Technical Committee tabled under item No **88**

For the following reasons/subject to the conditions appended overleaf.

Date **6th, December 2022**

For CECM Built Environment and Urban Planning

CC:
The National Land Commission, Nairobi
The Land Registrar
The Director General - Physical and Land Use Planning, Nairobi
The Director of Surveys, Nairobi
The Secretary, State Department of Lands, Ministry of Lands & Physical Planning

PLUPA-BPM-000740-N

SN: SUB-001920

Conditions for approval: -

a. Submission of satisfactory details including foundations, Beams, columns & Trusses.
b. Submission of certificate as to workmanship by Registered Architects, Structural Engineer & Occupation Certificate being obtained on completion before occupation.
c. Satisfactory ground soakage septic tank/bio-digester/conservancy tank installation at owner's risk or sewer line connection to Nairobi Water &sewerage Company &Public Health.
d. All debris and excavated materials to be dumped on sites approved by the NMS.
e. Strip of land coloured blue being surrendered to the government free of cost for road expansion, Entire plot Resurveyed by the owner, to the satisfaction of the NMS Director of Roads and Lands.
f. The plot not constituting part of any disputed private or public utility allocations by the county.
g. Install a projects signboard as per the adoptive by-laws, approved by the NMS indicating plan Registration number, Names and Contacts of the Developer(s), Consultants, and Contractors etc.
h. No trees shall be cut and/or uprooted without written permission from NMS Director of Environment.
i. Approval and implementation of traffic management report to the NMS director of Roads' satisfaction.
j. An environmental impact assessment to be approved by NEMA before commencement of works.
k. Wayleave for sewer, water, power, drainage and riparian being maintained &seek approval from NWSC, KPLC, WRA (Water Resource Authority) before commencement of works. (Minimum 10m Riparian way leave to be maintained).
l. Works to be executed by a contractor registered with National Construction Authority (NCA).
m. The developer will indemnify the NMS (including their agents or assignees) approving the plan from any claims that might arise during and after construction.
n. Installation of satisfactory ground water drainage construction to the satisfaction of NMS Director of Roads.
o. Approval to be renewed on expiry for uncompleted works.
p. Solar for hot water as per ERC Act.
q. Occupation Permit being obtained before occupation
r. The plot not constituting part of any disputed private or public utility allocations
s. Wayleave for sewer,water,power,drainage,riparian way leave,being maintained
t. Install a project signboard as per M.O.W standards, appproved by City Council of Nairobi indicating names, address and telephone numbers of developers, contractors, project consultants e.t.c
u. no trees shall be cut down and/or uprooted without permission from Director of Environment City Council of Nairobi
v. Solar energy for hot water

Invoice Number: INV-CU-AAE620 **PRN: PPA-CU-AAE620**

FORM P.P.A. 2

THE PHYSICAL PLANNING ACT (NO. 6 OF 1996)

NOTIFICATION OF APPROVAL OF DEVELOPMENT PERMISSION

To Onguso Malitinus Maina,

66124-00800.

Your application, **PPA-CU-AAE620** , submitted on 23 August 2021

Seeking permission for **Change of use (New)** from **Residential** to **Educational** on L.R/Plot no **LR. No. 7336/76**

Situated in **Karen Area** ,Road **Along Nandi Road**

Was approved by the County Planning Committee held on **2021-09-06** .

Under **Item 72** Subject to the following/appended conditions:

i) Submission of satisfactory building plans within two years and completion of construction within three years otherwise the approval lapses.

ii) Payment of revised ground rent as will be determined by the Director of Valuation,Ministry of Lands and Physical Planning

iii) Payment of revised rates as will be determined by the Director Valuation & Property Management - Nairobi City County

iv) Subject to the plot not constituting part of the disputed public/private utility land/allocations

v) Subject to compliance with Sections 36, 41 and 52 of the Physical Planning Act

vi) Subject to compliance with the approved zoning policy

vii) Subject to provision of appropriate setback(s) as per the rezoning plan

viii) Subject to provision of adequate and functional on site parking to the satisfaction of Director of Roads, Public Works & Transport

xv) Subject to the proposed development maintaining the requisite of 3m, 6m, 9m building line as per the statutes

xxi) Subject to limitation of the number of children as per the recommendation of Public Health Act & M.O.H.

xxvi) Subject to the development maintaining the residential character and densities of the area

xxx) Subject to student occupancy as per the recommendation of Public Health Act (M.O.H)

Date of Issue 22 September 2021	Signed
	Name
	For: Chief Officer - Urban Planning
cc:	*The Chairman National Land Commission , Nairobi*
	The Director of Physical Planning, Nairobi

	The Director of Surveys, Nairobi
	The Secretary, State Department of Lands, Ministry of Lands & Physical Planning
	*The Land Registrar*

h) Copy of First Public Consultation Meeting Minutes

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MINUTES OF A PUBLIC CONSULTATION MEETING FOR THE PROPOSED THE NAIROBI WALDORF SCHOOL TRUST CONSTRUCTION OF CLASSROOMS, A DINING HALL, AND ASSOCIATED AMENITIES HELD AT THE SCHOOL DINING AREA WITHIN THE PROJECT SITE, ALONG NANDI ROAD, KAREN.

ATTENDANCE LIST

Devlink Resources Consultants
P O Box 76065-00508, Nairobi
TEL. NO. 0721997876

ATTENDANCE SHEET

ENVIRONMENTAL IMPACT ASSESSMENT(ESIA) STUDY FOR THE PROPOSED CONSTRUCTION AT NAIROBI WALDORF SCHOOL TRUST ALONG NANDI ROAD, KAREN, NAIROBI COUNTY

No.	Name	ID number	Phone Number	Gender	Organization/ Group	Role	Signature	PROJECT OBJECTION / SUPPORT
1.	SILAS MIRITI	9697153	0721323752	M	OOP (internal security)	Senior chief	[signature]	Support
2.	GEORGE NYACHIRO	13568813	0724088981	M	INTERIOR	Ass chief Lenana	[signature]	SUPPORT
3.	AGNES MARIPET	23007262	0724645303	F	INTERIOR	ASST-CHIEF KAREN	[signature]	SUPPORT
4.	YACIATORU W.M	1078270	0722296252	M	Nyumba Kumi	Elder	[signature]	Support
5.	MARTIN SARUNI	30585903	0794404912	M	CHIEF	member	[signature]	Fully Support
6.	Francis Lochwal	31795075	0768211968	M	Chief	member	[signature]	Supporter
7.	GEOFFREY MURIA	13401331	0726458318	M	NYUMBA KUMI	ELDER	[signature]	[illegible]
8.	Said Muhammed	31019263	0729381580	M	Youth	Youth	[signature]	[illegible]
9.	PETER KANTET	22655689	0714895834	M	RELIGIOUS	PASTOR	[signature]	Support
10.	CATHERINE MAINA	11447313	0721795740	F	community	Advocate PWD	[signature]	SUPPORT
11.	JANE CHEPKWONY	10989291	0711676373	F	COMMUNITY	Nyumba Kumi	[signature]	Support
12.	LEPOSO	12655244	0714323337	M	Community	NYUMBA KUMI	[signature]	SUPPORT
13.	SAMSON KOSHI	12655230	0723855817	M	ELDERS CHIEF	Chief office	[signature]	SUPPORT

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	NAME	ID NO.	PHONE NO.	GENDER	GROUP/ ORGANIZATION	ROLE	SIGNATURE	OBJECTION/ SUPPORT
14.	Lawrence Wer[illegible]	12510679	0722484479	M.	MPS Office	Elder	[illegible]	Support
15.	George Murunga	9022817	0111777299	M	County		[illegible]	Supporte
16.	Pedro Olosiit	41733740	0705005418	M	MPs Office	Member	[illegible]	
17.	John Aloi	27130758	0790936507	F	MCA Office Youth rep	Youth Rep	[illegible]	Support
18.	Berard Kimathi	35782911	0715525108	M	Nairobi City County		[illegible]	Support
19.	Wanja Maina	—	0718923861	F	KLDA	Residents Rep	[illegible]	Object
20.	Victoria W.	—	0795385922	F	KLDA	"	[illegible]	Object
21.	Mohamed Godana	25300957	0728064074	M	MCA's Office	Chairman Bursary	[illegible]	Support
22.	Jimmy Byron	23799802	0111439974	M	Resident	Member	[illegible]	Support
23.	Musyoki Mutua	32017556	0712214974	M	Staff NWST	Staff	[illegible]	Support
24.	Patrick Karanja	23789697	0726497221	M	NWST Staff	Staff	[illegible]	Support.
25.	Josphat Gogani	14658943	0731791341	M	NWST Staff	Staff.	[illegible]	Support
26.	Linda Wambui	24160763	0728559832	F	NWST Staff	Staff	[illegible]	Support
27.	Evelyn Onye[illegible]	22192861	0723102762	F	NWST Staff	Staff	[illegible]	Support
28.	Aswan Carlyne	25117395	0725479669	F	NWST Staff	Staff	[illegible]	Support
29.	Mburu Ngugi	10331818	0722 272812	M	KLDA + Mlotoni	Resident	[illegible]	Object.
30.	Wanjiku Githinji			F	Resident	Resident	[illegible]	Object
31.	Wamaitha Githinji			F	Resident	N/A	[illegible]	Object
32.	Sammy Mathu	4420201		M	Resident		[illegible]	Object
33.	Gorety Som	23247785	0711760052	F	NWST Staff	Staff	[illegible]	Support!
34.	Tana Lyons	24232488	0701638454	F	NWST Staff	Teacher	[illegible]	Support

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								OBJECTION/ SUPPORT
35.	Ron Omelo	22010117	0721874112	M	LIWSI	F. MAHALGA		SUPPORT
36.	Charity Kita	27531617	0727686411	F	Devlink	ESIA CONSULTANT		
37.	James Kioko	23406696	0720422266	M	NKUST	SCHOOL DIRECTOR		FULLY SUPPORTED
38.	Patrick Kathe	20782295	0721997876	M	Devlink	ESIA Expert		
39.	STELLA CHEGE	14544758	0725721623	F	NWST	PARENT		SUPPORT
40.	Victor Kimeu	39346810	0712349485	M	Nairobi County	PHO		object
41.	Jackline Omae	3989 5304	0740871123	F	Nairobi County	Environmental Officer		Support
42.	Juliet Adhiambo	40042281	0714968748	F	Nairobi County	Environment Officer		Support
43.	Gindani Wambui	40257989	0743179861	F	Nairobi County	Environmental Officer		Support
44.	DAVIES OKOTH	29433860	0718422897	M	NCCG - Langata	Environment Officer		
45.	Lucy Gitau	22385499	0781800773	F	Neighbor Nairobi Company	Neighbour		support
46.	PETER MURUMWA	20083484	0725688521	M	MCAS OFFICE	MANAGER		Support
47.	PATIENCE GWARO	25999489	0725667195	F	Devlink Resources	ESIA Consultant		
48.								
49.								
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53.								
54.								
55.								

AGENDA

1. Welcome and Introduction
2. Purpose of the meeting
3. Presentation: Project description
4. Presentation: Environmental and Social Impact Assessment
5. Discussion and Questions for Clarity on Proposed Project
6. Support for the project
7. Closing Remarks

MINUTE 01/25/06/2024: WELCOME AND INTRODUCTION

The meeting was called to order at 1100HRS by the area senior Chief, Mr. Silas Miriti. The Chief then asked for a volunteer to open the meeting with a word of prayer, whereby Pastor Peter Kanteti led the meeting with a word of prayer. The Chief then welcomed all the attendants and thanked them for creating time to attend the meeting. He then led in self-introductions in which those present introduced themselves in turns. The Chief started by supporting the project and added the he hope the project goes through.

MINUTE 02/25/06/2024: PURPOSE OF THE MEETING

The Chief told the meeting that the main agenda of the meeting is ESIA public participation, which is a requirement of our Laws. He went ahead to welcome the School Director, Mr. Kioko Muthusi to give a brief of the School.

The School Director stated that the school has been in Karen for 24 years. It came to the current site, Nandi Road, Karen in the year 2021, from Miotoni area of Karen. He also said that the school has another campus in Lovington. He said that the school they stopped immediately and that's why they were invited in the meeting. He said that the school allows kids of 1.5 years to 19years old, i.e. from kindergarten to high school. The Director stated that the school has a population of three hundred students (300) students', one hundred and five (105) workers and forty (40) suppliers. The Director went ahead and said that they had a Valid ESIA license from NEMA when construction of the current school structures commenced. Construction of the school project was stopped when it 80% had been done following a complaint from the Karen Langata District Association (KLDA) to the National Environment Tribunal.

The Tribunal gave a ruling that the first EIA process did not accord adequate space for consultation, hence cancelling the EIA license and ordering that the EIA Process be repeated with provisions for adequate

consultation with all stakeholders, and especially members of KLDA. The Director indicated that they are respecters of the rule of law, hence construction had been stopped since the ruling of the Tribunal and the reason they initiated the current ESIA process.

After the School Director's brief presentation, the Chief then called upon ESIA team.

MINUTE 03/25/06/2024: PRESENTATION - PROJECT DESCRIPTION

One of the Lead Expert Consultants, Ms. Patience Gwaro, gave a presentation on the ESIA process, elaborating on the proposed project, its potential environmental and social impacts (both positive and negative) and the proposed mitigation measures. *(Please find attached copy of the presentation for more details)*. She informed the meeting that the Environmental Management and Coordination Act of 1999 which was revised in 2015 and the Environmental Impact Assessment Regulation of 2003 (Revised in 2016) require that certain projects be subjected to an Environmental Impact Assessment (EIA) and that such as an assessment also require public consultation and participation.

The purpose of consultation and public participation is to:

a) Provide information regarding the proposed construction of the structures to the surrounding community, key stakeholders, and interested persons
b) Provide an overview of the EIA and Public Participation Process (PPP) being followed for the proposed project
c) Provide an opportunity for affected people, key stakeholders and Interested persons to seek clarity and provide input into the project;
d) Record and document the comments raised and include them in the final report

The EIA Expert made a brief description of the project. She stated that the proposed project entails construction of

- ✓ 12 Ground level class rooms for the primary education
- ✓ 4 Ground level class rooms for the secondary education
- ✓ 4 Ground level class rooms for Kindergarten and a Playground
- ✓ A dining hall
- ✓ Washrooms
- ✓ Laboratory

- ✓ Workshop

She added that about 80% of the project has already been implemented, leaving only 5 classrooms, the laboratory and the workshop.

MINUTE 04/25/06/2024: PRESENTATION: ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT

The Lead ESIA Expert explained that ESIA is a systematic analysis of projects, policies, plans or programmes to determine their actual and potential environmental impacts, the significance of such impacts and to propose measures to mitigate the negative ones. ESIA is mainly used at the level of specific developments and projects such as the proposed project on construction at The Nairobi Waldorf School Trust. She listed some of the key legislation such as

- ✓ The constitution of Kenya 2010
- ✓ Environment and development policy (Sessional Paper No.6 of 1999)
- ✓ The water Act, 2016
- ✓ The Physical Planning Act of 1996 (Revised in 2012)
- ✓ Education Act
- ✓ Environment Management and Coordination Act, 1999 (revised in 2015):
    - Environmental Impact Assessment and Audit Regulations 2003 (revised in 2016).
    - Air Quality Regulations 2014
    - Waste Management Regulations 2006
    - Noise and Excessive Vibrations Pollution Control Regulations 2009
    - Water Quality Management Regulations, 2006
    - Conservation of Biological Diversity and Resources, Access to Genetic Resources and Benefit Sharing) Regulations, 2006
- ✓ The Penal Code
- ✓ Sustainable Waste Management Act of 2022:
- ✓ Factories and Other Place of Work Act, Revised in 2012
- ✓ County Government Act, 2012
- ✓ The Public Health Act, 2012
- ✓ Urban and Cities Act No 13 of 2011
- ✓ The Environment and Land Court Act, 2011
- ✓ Forest Conservation and Management Act
- ✓ Wildlife Conservation and Management Act
- ✓ National Construction Authority Act, 2011

- ✓ Land Act

She went ahead to give some of the positive of the proposed project as follows:

- ✓ Provision of the much needed school facilities
- ✓ Conducive learning environment for the NWST students
- ✓ Creation of employment opportunities,
- ✓ Improving growth of the economy hence improved living standards,
- ✓ Revenue Generation to the government
- ✓ Provision of market for supply of construction materials, educational equipment and other services

She listed some of the potential negative issues in relation to the project implementation as follows:

a) Construction:

- ✓ Construction dust, vehicular and equipment exhaust emissions could temporarily impact air quality
- ✓ Increased demand for water and power
- ✓ Effluent generation
- ✓ Impacts in relation to surface drainage
- ✓ Solid waste generation
- ✓ Loss of biodiversity
- ✓ Potential noise pollution

b) Operation:

- ✓ Occupational health and safety risks
- ✓ Pressure on existing infrastructure
- ✓ Increased demand for water and energy
- ✓ Solid waste generation
- ✓ Effluent generation

c) Decommissioning

- ✓ Loss of direct and indirect employment
- ✓ Demolition waste
- ✓ Noise pollution
- ✓ Dust and exhaust emissions
- ✓ Occupational health and safety hazards.

She itemized some of the proposed mitigation measures to the identified potential negative impacts as follows:

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a. Biodiversity:

- Design and implement an appropriate landscaping program to help in re-vegetation of part of the project area after construction
- Where possible preserve/conserve trees and other vegetation
- Increase the vegetation cover

b. Air pollution:

- Design and implementation of a vehicular and equipment management schedule
- The contractor to develop and implement an ambient air quality monitoring program to verify construction related emission levels, identify main sources and develop potential action for improvement
- Use water sprays as dust abatement to limit excessive dust emissions from granular material handling and piling, and vehicle movements.
- Providing all employees with suitable safety and protective gears (PPEs);

c. Waste Management:

- The proponent should contract a licensed waste handler to manage the solid waste generated during construction.
- Excellent housekeeping standards should be maintained on site and stores
- Enforce sorting of waste at source for easy waste handling

d. Noise pollution

- Construction works to take place only during stipulated time according to the Noise regulations, 2009
- Enclose the construction site

e. Increased Water Demand

- Encourage water reuse/recycling during both construction and operational phases.
- Install water conserving taps that turn off automatically when water is not in use.

f. Increased Power Demand

- Use energy conserving electric lamps for general lighting.
- Utilize natural light inside buildings to avoid using electricity for lighting during the day.
- Explore the use of solar and wind energy

- Create awareness among staff and students on the need to conserve energy

g. Surface Drainage

- Elaborate design of the drainage system should ensure that surface flow is drained suitably into the public drains provided to control flooding within the site.
- Paving of the side walkways, driveways and other open area should be done using pervious materials to encourage recharge and thus reducing water run-off volume.

MINUTE 05/25/06/2024: DISCUSSION AND QUESTIONS FOR CLARITY ON THE PROPOSED PROJECT

The Chief welcomed those in the meeting to air their opinions, recommendations, suggestions and questions in relation to the proposed project. This session was opened by Ms. Wamaitha Githinji.

i) Ms. Wamaitha from KLDA sought to understand if the project at its current stage allowed for input to its designs from the surrounding community. She also wanted a clarification on traffic in and around the school and what are the current mitigation measures for noise pollution from the children and the impact of the remaining 20% of the construction.

ii) Ms. Wambui from KLDA wanted to know if there is an opportunity to provide input on the designs and if there is any traffic data related to the proposed project.

iii) Ms. Victoria from KLDA asked to get a clarification about the following:

a) The traffic management plan
b) The water supply plan, as Karen usually has issues with water
c) Solid waste management plans
d) The proposed project school population
e) Wastewater management plans
f) Number of trees to be cut down to pave the way for construction
g) Plans for noise pollution mitigation
h) Surface drainage system

iv) Ms. Catherine Njeri expressed her concerns about the following:

a) Need to develop a well-structured way to engage the surrounding community given that the project site in in a predominantly residential area.
b) She wondered if the school was engaging the locals, especially the youth, on available job opportunities.
c) She also wanted to know how the school is accommodating needs of students living with disabilities (PLWD)

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In response to the raised concerns, the School Director clarified that the school already took cognizant of the issue of noise pollution and where in the process of installing low volume speakers in their school, especially in the sports fields and auditorium. The school has also been avoiding the use of Public Address Systems during their functions so as to reduce on noise disturbances to their neighbors. He also pronounced that, before the stoppage of the school construction, the school had procured an expert to do artificial hills on its boundary so as to reduce on noise pollution from the students.

On the number trees to be cut down, the Director clarified that all the trees within the school compound have been numbered to ensure utmost conservation. He explained that no tree is to be cut without the permission of the County Government through the school management board, unless it poses an immediate danger to life and property. He noted that the school infrastructure design is in such a manner that most of the buildings fit under and around trees. He also stated that only aged trees posing a danger to students, staff, and the community at large were cut down. He said that most of these trees had already been cut down, and no more trees will be removed unless they pose a danger to humans

On water availability, the Director clarified that the school is with water by water bowsers. He clarified that the idea of a borehole was thought not to be viable given the number of boreholes already sunk around Karen.

About employment, he stated that an average of 50% of the school's workforce (especially teachers) comes from Karen and most of the suppliers are from Karen not forgetting that 95% of the students' population comes from Karen. He also clarified that the school has provisions for PLWD students, having employed teachers who are specialists in dealing with PLWD, including the physically disabled, slow learners, those with hearing disabilities etc. He promised that the school will work with the Chief's Office to ensure that employment opportunities benefit people from within and around Karen.

On the issue of KLDA's ability to give an input in relation to the project's designs, one of the Lead Experts, Mr. Patrick Kituta responded to Wambui by explaining that there is still time, which is why they are holding this meeting. He clarified that the project construction was stopped by the Tribunal to ensure that the project proponent engages the community more. The purpose of public meetings is to gather recommendations and suggestion from those likely to be affected by a proposed project such as the school construction project.

Mr. Kituta mentioned that there were plans for traffic management, including suggestions for acceleration and

deceleration lanes to avoid traffic congestion at the school's entry and exit points. However, following observations made for the last two years that the school has operated in the site, there has not been any sign of increased traffic around the school entrance and exit points. This was achieved after the school allowed for dropping and picking of students from within the school compound as opposed to doing it from the gate.

Concerning wastewater management plans, Mr. Patrick stated that they have existing septic tanks that are operating well unless neighbors and stakeholders have experienced issues. He urged members to share any concerns about wastewater management to help recommend the best way forward.

Addressing noise pollution from the children a question that was raised by Githinji, the lead expert encouraged residents to share their suggestions to determine the best way forward.

Regarding surface drainage designs, the lead expert sought to understand if the neighbors had experienced any adverse effects as a result of surface from the school compound. None confirmed to have had suffered from increased surface run-off. It was noted that the project site is served by adequate surface drainage systems running along the roads. The expert noted project was approved by the county government, and for approval, it must have valid designs showing how the proponent will manage surface water run-off.

Responding to Catherine's concern about public notices, the ESIA lead expert accepted the recommendation and encouraged the present members to share their suggestions on how to reach more residents in the community.

Ms. Wamaitha sought to understand why the ESIA is being carried out for the whole project, yet the 80% of the project has already been done and in operation. The lead expert clarified that what was stopped was further construction of the school infrastructure and not operation of the school. He said that the EIA should be conducted as if nothing has been done on the ground, i.e. ESIA cannot be done halfway, thus enabling proposing mitigations for all potential social and environmental impacts of the project from conceptualization through implementation and operation phases.

Stella Chege who is a parent in the school was concerned about getting advice from the county government or a court order before the school management cuts down trees that endanger the lives of students and staff. She encouraged the school management to work closely with the authorities to manage the situation. The Chief responded by saying that safety comes first, hence any tree posing a danger to life and property is to be

brought down immediately as the authorities are being notified.

The Lead Expert called upon Mr. Mburu Ngugi, Secreatry to KLDA, to give his suggestions on what should be done to help the school live in harmony with the surrounding community, especially KLDA. Mr. Mburu stated that KLDA was set up in 1940 and has been taking care of the Karen area tranquility since then. He explained that Karen is meant to be a low density residential area. He specified that KLDA is against the continued commercialization of Karen area; hence the reason KLDA was against development of the school.

He cited examples of Kileleshwa and Kilimani, which are now overcrowded, leading developers to move towards Karen. He added that this is not an isolated case and that they have numerous cases along Nandi Road alone including being voicing their displeasure with bars and restaurants that have been set up in their neighborhood.

The lead expert clarified that the school is not a commercial set up, but a social amenity. He sought to delink the school project from being likened to bars and restaurants. He pointed out that the most obvious social impact in relation to the school project was noise pollution from students, which happens during the day when most of the surrounding residents are out at their work places (from 10am to 4pm) as opposed to bar and restaurants which can make noise both during the day and night depending on their license specifications.

Laurence Were wanted to know if there are teaching positions available at the school so that he could refer some individuals in need. Additionally, he inquired about the school's CSR practices. The School Director pointed out that the school encourages locally qualified teachers to apply and announced there were currently four vacancies for teachers. However, for one to be hired, he or she must be registered with Teachers Service Commission (TSC) and have a relevant degree.

Pedro Lelesis wanted to know what it takes to join the school. The School Director responded by pointing out that it starts by a week's orientation to potential students to enable one make a decision if the school environment fits to their expectations. He stated that the school also provides scholarships to needy potential students as part of its Cooperate Social Responsibility (CSR).

The Lead Expert, Mr. Kituta, assured the members that they would receive a copy of the minutes for the meeting proceedings. He encouraged anyone with written comments to bring them to the upcoming meetings

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on the specified dates. He added that the director should invite parents to their next meeting and provide details about the workers and students.

The Director then called upon the Chief to give his final remarks. Chief Silas concluded the meeting by saying that if there are trees in the compound posing a danger to the institution, they should cut it down immediately and report the matter to his office for a follow up with other authorities and KLDA. The Chief expressed his support for the project and hoped that an amicable agreement will be arrived at between the school and surrounding community for the project's continuity.

The Chief that the next meeting would be on July 3, 2024, followed by another one to be held on July 10, 2024.

MINUTE 06/25/06/2024: SUPPORT FOR THE PROJECT

All those who were present supported or objected the proposed project by indicating on the attendance list column.

MINUTE 0725/06/2024: CLOSING REMARKS

The Chief thanked the participants for their active engagement in the meeting .The participants signed the attendance sheet. The meeting was closed with a word of prayer from one of the representatives of the Muslim Community at 1230hours

Minutes Prepared by: Charity Kita -Sign: ..... **Dated:** 03/07/2024

Together with EIA Lead Expert: Patrick Kituta–Sign ..... Dated: 03/07/2024

PATRICK K. KITUTA
P. O. Box 76065 - 00508
NAIROBI
Cell: 0721 997 876

EIA Lead Expert: Patrick Kituta Stamp.....

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Witnessed by

KLDA Representative: ....

Name **Sign**

***KLDA's* Stamp:** ..... **Date** .....

Witnessed by:

School Representative: JAMES KIOKO ....

Name **Sign**

NAIROBI WALDORF SCHOOL TRUST
SCHOOL DIRECTOR
03 JUL 2024
Sign
P.O. Box 13732 - 00800, NAIROBI

School's Stamp: ..... **Date** 3/7/2024

Witnessed by:

Area Chief / Assistant Chief: SILAS MIRITI .....

Name **Sign**

ASSISTANT CHIEF LENANA SUB-LOCATION
KAREN LOCATION
LANGATA SUB-COUNTY

Chief's/ *Assistant Chief's* Stamp: ..... **Date** 3/7/2024

PICTORIAL

Figure 1: The ESIA Expert during her presentation on the project details

Figure 2: The School Director during one of his presentations

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Figure 3: Mr. Mburu, the KLDA Secretary during his presentation

Figure 4: The Area Chief and Assistant Chiefs during the introduction phase of the meeting