PROPOSED APARTMENTS DEVELOPMENT ON PLOT L.R. No. 1870/III/233 ALONG SCHOOL LANE, WESTLANDS, NAIROBI CITY COUNTY

FINAL EIA STUDY REPORT

PROJECT PROPONENT:

THE ISLAMIC FOUNDATION NAIROBI REGISTERED TRUSTEES
PO BOX 30611-00100
NAIROBI

FACT SHEET

PROJECT NAME	PROPOSED APARTMENTS DEVELOPMENT
PROJECT PROPONENT	THE ISLAMIC FOUNDATION NAIROBI REGISTERED TRUSTEES
	PO BOX 30611-00100
	NAIROBI
	TW III O D
DEDORT	THE ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT
REPORT	
	STUDY REPORT
PROJECT COMPONENTS	2 Apartment Blocks, 24 Floors and 18 Floors
	18 Floors of residential apartments a mix of one-bedroom
	(80 units), two-bedroom (120 units) and three-bedroom
	with DSQ (36 units) apartments a total of 236 Units.
	2 Basement and Ground Floor Parking
	1 ST -3 RD Floor, Commercial Offices and Parking
	24 th Floor (Rooftop) Swimming Pool and Gym
PROJECT COST AND PROJECT	523,465,865.00 (five hundred and twenty three million four
DURATION	sixty five thousands eight sixty five hundred)
	24 months
PROJECT SITE LOCATION &	Located in Westlands along school lane on plot LR NO
FOOTPRINT	1870/111/233
	GPS Coordinates: 1°51'34.4"S 36°47'56.4"E or -1.2595675,
	36.7990771
	Size:0.3275 Ha
TERMS OF REFERENCE NEMA	NEMA/TOR/5/2/548
APPROVAL REFERENCE NUMBER	, , , ,

DOCUMENT CERTIFICATION

Assignment: The Environmental Impact Assessment Study Project Report for the Proposed Apartments Developments on plot LR NO 1870/111/233 in Westland's Nairobi City County.

We, the undersigned, certify that the particulars in this report are correct and righteous to the best of our knowledge.

ENVIRONMETAL LEAD EXPERT

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NEMA REG. NO.	6679
SIGNATURE:	
DATE:	

FOR AND ON BEHALF OF THE PROJECT PROPONENT

THE ISLAMIC FOUNDATION NAIROBI REGISTERED TRUSTEES
PO BOX 30611-00100
NAIROBI

Name:	••••••••••••		
Designation			
Signature	Date	Stamp	

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ACRONYMS AND ABBREVIATIONS

CCTV	Closed Circuit Television
CBD	Convention on Biological Diversity
EA	Environmental Audit
EIA	Environmental Impact Assessment
EMCA	Environmental Management and Coordination Act
EMMP	Environmental Management and Monitoring Plan
EHS	Environmental Health and Safety
IUCN	International Union for Conservation of Nature
GIS	Geographical Information System
GHG	Green House Gases
GOK	Government of Kenya
GPS	Global Positioning System
HIV/AIDs	Human Immunodeficiency Virus/Acquired Immune Deficiency
HVAC	Heating, Ventilation and Air Conditioning
HSE	Health Safety and Environment
IFC	International Finance Corporation
INL	International Narcotics And Law Enforcement Affairs
KMD	Kenya Meteorological Department
KPLC	Kenya Power and Lighting Company
KRA	Kenya Revenue Authority
KSHS	Kenya shilling
KFS	Kenya Forest Service
MSDS	Material Safety Datasheets
NCA	National Construction Authority
NET	National Environmental Tribunal
NEMA	National Environment Management Authority
NEAP	National Environmental Action Plan
NEP	National Environment Policy
NGO	Non-Governmental Organization

NPEP	National Poverty Eradication Plan
NWASCO	Nairobi Water and Sewerage Company
OHS	Occupational Health and Safety
PPE	Personal Protective Equipment
SWM	Solid Waste Management
INLUG	Integrated National Land-use Guidelines
TOR	Terms of Reference
UNFCCC	United Nations Framework Convention on Climate Change
WHO	World Health Organization
WRA	Water Resources Authority
WSP	Water Service Provider
WIBA	Work Injury Benefits Act
WWTP	Waste Water Treatment Plant
mm	Millimeter
m	Meter
km	Kilometer
m ³	Cubic metre
m³/hr-	Cubic metre per hour
m/hr-	Metre per hour
M³/day	Cubic meter per day
Sq.M	Square Meter

EXECUTIVE SUMMARY

The Proposed Project

The Proponent, Islamic Foundation Nairobi Registered Trustees, has proposed to develop their parcel of land in Westlands, Nairobi City County According to the architectural drawings, the proposed project shall comprise the following:

- The design consists of two blocks residential building one block will have 24 floors while the other one will have 18 floors, consisting of two basement and ground-3rd floor shall serve as parking lot, 1st to 3rd floor will have open offices space of different typologies. The residential units shall comprise of 120 two-bedroom units, 80 one-bedroom units (confined in one block) while the second block will have 36 three bedrooms units with DSQ. Internally, apartments are planned to meet the highest standards of modern day living. A spacious lounge, generous open plan kitchen/dining area, washroom, spacious bedrooms and private balconies oriented to maximize views from the site.
- The proposed site is located on plot L.R. No. 1870/III/233 along School Lane, Westlands; Nairobi City County. The proposed site is on GPS Coordinates: 1°51'34.4"S 36°47'56.4"E or -1.2595675, 36.7990771 and the plot size is 0.3275 hectares. Administratively, the site is located in Parklands/Highridge Ward, Westlands Location, Westlands Division, Westlands Sub-County; Nairobi City County.
- The estimated cost of the project is Ksh. 523,465,865 and shall take 24 months to complete once all the approvals have been acquired.

EIA Study Methodology

The EIA Study is being undertaken in fulfilment of the Environmental Management Coordination Act of 1999 and 2015 (EMCA) Schedule II that identifies projects that require an Environmental Impact Assessment (EIA) to be conducted prior to the commissioning/operation in order to identify the potential adverse impacts of a project and thereby devise appropriate mitigation measures. Various data collection methods were used but not limited to the following:

Document Review: A literature review was undertaken which involved reviewing legislation, policies, County Development Plans and previous studies carried out in the areato determine the baseline conditions and establish the legal, institutional and biophysical and socioeconomic environmental setting of the proposed project. The desk based study also included the development of fieldwork tools,

fieldwork schedules as well as the approach to stakeholder engagement as outlined in the Stakeholder Engagement Plan.

Site Visits: A site meeting was conducted between the proponent and the consultant on 16Th February, 2023 followed by a site reconnaissance which enabled the consultants get familiarized with the proposed projects. Following the reconnaissance visit, a follow up site visit was conducted by the consultant's environmental team on 20th February, 2023 to identify the various environmental and social components that would need more attention during the detailed EIA study. Initial consultations through key informant interviews were conducted between 22st February, 2022 and April 2023 in the scoping study in order to:

- Introduce the project to the stakeholders;
- Collect any documentation that would inform the detailed EIA study;
- Gather preliminary stakeholder views on the project.

Interviews with stakeholders and key informants including Nairobi City County Government officials, local leaders, community representatives among others. The outcomes of these activities informed the preparation of a scoping report and terms of reference which were submitted to NEMA on 28th February 2023 and approved on 2nd March, 2023. *Find NEMA TOR approval letter attached as annex 6*.

Additional information gathered from site reconnaissance was validated using literature and consultations with project stakeholders and key informants during the field activities conducted between 17th May 2023 and 19th May 2023. Field activities that enabled development of this draft EIA Study Report included:

- Identification of flora and fauna in the project area,
- Three (3) public meetings were held in the proposed project site, public meeting at the proposed site with a total attendance of 53 people;
- Consultation with Nairobi City County Government officials, NEMA Office-Nairobi, Local Administration, Nairobi Water and Sewerage Company, Westlands School and other key stakeholders.
- Identification of specific anticipated impacts, both favorable and detrimental to the environment and the local community.

The major feedback from the consultations held expressed wider support of the proposed project sighting creation of employment, increase in land value and development of Westlands as a whole.

Policy, Legal and Institutional Framework

A review of the policy, legal and institutional framework in relation to the proposed project was carried

out. The key documents reviewed included the Constitution of Kenya, 2010, which is the supreme law of the Republic of Kenya, the Environmental Management and Coordination Act (EMCA), 1999, and Amendment Act, 2015, Environmental (Impact Assessment and Audit) Regulations, 2003 and Amendment Regulations, 2016, Water Act, 2006, the Land Act 2012, Kenya's Vision 2030, the Big Four Agenda, among others. This report has been prepared in accordance to the Environmental (Impact Assessment and Audit) Regulations, 2003 and Amendment Regulations, 2019 under EMCA, 1999, the principal environmental law that emphasizes that every person in Kenya is entitled to a clean and healthy environment and has the duty to safeguard and enhance the environment.

Anticipated Project Impacts and mitigation measures

The anticipated environmental and social impacts from the proposed project are both positive and negative. These include:

Anticipated Positive Impacts

- Provision of quality apartments
- Creation of employment
- Generation of revenue to government and the project proponent
- Business opportunity for goods and services
- Optimal use of the prime land.
- Improved security

Anticipated Negative Impacts

- a) Air pollution, dust and particulate emission;
- b) Exploitation of raw materials
- c) An increase in solid and liquid waste generation;
- d) Increased pressure on the available infrastructure and social services;
- e) Occupational and health safety concerns during construction;
- f) Noise and excess vibrations
- g) Increased water and energy demand
- h) Surface runoff and storm water drainage
- i) Risk of fire outbreak;
- j) Oil leakages to the environment

- k) Increased traffic
- 1) Impacts on occupational health and safety;
- m) Emergence and spread of social vices
- n) Increased traffic
- o) Soil erosion
- p) Deforestation
- q) Visual intrusion of the neighbouring properties
- r) Insecurity

Stakeholder Engagement and Public Participation

The aim of public participation is to disseminate information to interested and affected parties, consult and seek views/comments in order to incorporate their views in the project design considerations. Methods used in public participation exercise include the following:

- **Direct interviews**: where necessary, to get responses from the proponent, project manager and project consultants and key stakeholders.
- **Public baraza**: A total of three public meeting were held where community members raised concerns about the impact of the proposed project including matters of air pollution, water shortage among others during project construction and operation. However, they also noted that the project has numerous positive impacts particularly noting the creation of job and business opportunities, increased employment and trading opportunities, land value appreciation and improved security triggered by the proposed development.
- Questionnaire administration: Over 40 open-ended questionnaires were administered during the one on one interviews. This was so as to sensitize the community about the projectand draw local knowledge in the identification of the various impacts relating to the project.

Project Alternatives

A no construction/project alternative would imply that the situation on the proposed site would be left in its present state. While this ensures non-interference and preservation of the status environment and social conditions, without the proposed project, the anticipated benefits as outlined would not be achieved. The "No Action Alternative" should not be adopted, as we need to encourage development so long as it is undertaken on a sustainable basis as per the environmental and social management plan developed in this report, all the relevant mitigation measures advised by the relevant government agencies and good management practices. Furthermore, Westlands is zoned for multi-dwelling

residential developments-flats and commercial developments.

Environmental Management and Monitoring Plan (EMP)

In terms of mitigating the environmental impacts, the proponent and the contractor will be required to implement comprehensive environmental management plans. The EMP is developed to ensure the sustainability of the project, from construction through to operation. The plan provides a general outlay of the activities, associated impacts, mitigation action plans and appropriate monitoring indicators. Implementation timeframes and responsibilities are also defined. The EMP also outlines social mitigation measures. The most crucial and urgent is the need for comprehensive mitigation measures against pressure on services and social amenities. Nairobi City County Government and the National Government are responsible for the provision of services such as solid waste management, sewer line, major public facilities, water provision, security lights, road infrastructure, etc. The Proponent will work in close collaboration with the government agencies to ensure minimal disruption of services in Westlands and all the surrounding environs. This may involve working on upgrading the local infrastructure where needed. The primary responsibility for the integration of the mitigation measures for the proposed development lies with the project proponent and by extension the contractor during the construction stage, while the proponent takes over the duty upon commissioning of the project. At every stage, the objective should be to ensure that the specified mitigation measures are implemented.

Conclusion and Recommendation

The proposed project is a timely idea, which if implemented shall supplement the government's affordable housing programme. However, its implementation will have some negative impacts on the existing socio-economic balance of the project area. The need for coexistence between environment and development necessitates adherence to the mitigation measures provided in this report. The consultants found out that the project shall create employment and play a role in affordable housing programme. It is also recommended that the positive impacts that emanate from such activities shall be maximized as much as possible. It is expected that these measures will go a long way in ensuring the best possible environmental compliance and performance standards. However, the project will also have some undesirable impacts on the physical environment both during the construction phase and over the operation phase, if appropriate mitigation and support measures are not employed. Recommendations for corrective measures for the potentially significant and/or adverse environmental impacts, and safety risks, have been provided as an integral part of this EIA study report. The proponent shall ensure the implementation of EMP during construction, operational and decommissioning and phases.

CHAPTER ONE: INTRODUCTION

1.1 Introduction

Globalization, urbanization, migration and technological advancements have continued to drive cities forward right from their infant stages, the cyclic processes, growth, through to their renewal and regeneration. More and more people are moving and positioned themselves in cities for business, work, venturing forth and recreation. The demand for residential space development situation in Kenyan (urban areas) has remained under tremendous pressure. Both the government and private sector have had a role to play with the government servicing the land and leaving it to private entrepreneurs to develop. The provision of housing has not kept pace with the said phenomenon. However, the Kenyan government has with great concern realized the pressure for residential sites which has a great implication service industry and on employment and has introduced a policy aimed at providing over 150,000 house unit per year; but in line with physical planning policies- Policies in the physical planning and housing sectors are aimed at increasing the supply of standard housing units, water supply and sanitation, channelizing the urbanization and assuring proper urban development and management ISLAMIC FOUNDATION NAIROBI REGISTERED TRUSTEES, herein after referred to as proponent has realized the said opportunities in the Kenya's service industry and housing sector. He has proposed to develop residential apartments. The project is proposed on a land Plot L.R. No. 1870/III/233 situated in Westlands Area within Westlands Sub-County, along School Lane, Nairobi City County.

The project proponent, propose to build two blocks residential building one block will have 24 floors while the other one will have 18 floors, consisting of two basement and ground-3rd floor shall serve as parking lot, 1st to 3rd floor will have open offices space of different typologies. The residential units shall comprise of 120 two-bedroom units, 80 one-bedroom units (confined in one block) while the second block will have 36 three bedrooms units with DSQ. *See chapter two for detailed description of the proposed project*. Under section 58 Environment Management and coordination Act (EMCA), 1999, any activity out of character with its surrounding and likely to cause substantial impact to the environment requires an Environmental Impact Assessment (EIA) Report. During the screening of the proposed project in line with legal notice No. 31 of 2019. We established that the development falls under High-Risk Projects - Urban development including establishment of new housing developments exceeding one hundred housing units, which requires submission of an environmental impact assessment study report under section 58(2) of the Environmental Management and Co-ordination Act, 1999. To comply with this requirement, the project proponent contracted NEMA registered EIA experts to carry out detailed EIA study.

1.2 Project's Objectives

- To put up residential apartments.
- To provide adequate, functional, safe and pleasant living space;
- To maximally utilize the prime piece of land;
- To generate income both for proponent and the government,

1.3 Project Justification

There is 22% of Kenyans living in cities, and the urban population is growing at a rate of 4.5% every year. Nairobi alone requires at least 200,000 new housing units annually to meet demand, yet only 25,000 homes are built. This mismatched supply and demand has caused housing prices to increase by 100% since 2004. This pushes lower income residents out of theformal housing market and into the slums. About 60% of urban residents live in slums. Most urban centers in the country are faced with an acute housing shortage and the Nairobi City and its environs is among the worst hit. The increase of city population has led to a housing crisis. In an effort to stimulate development of houses to reduce the shortfall, the government formulated a policy aimed at providing approximately 150,000 new houses annually; to meet the current high demand on housing facilities, over the next decade. It is currently estimated that the annual house deficit is 200,000 in Kenya. To supplement the government effort to construct affordable housing across the county, the proponent proposes to develop a residential apartments block in Westlands.

1.4 Objectives of the EIA Study

1.4.1 General Objective

The general objective of the EIA study is to carry out a systematic examination of the present environmental situation within the project area to determine likely impacts of the proposed Project in Westlands with a view of improving the sustainability of the project.

1.4.2 Specific Objectives of the EIA Study

- a) To highlight environmental issues of the proposed project with a view to guiding policy makers,
 planners, stakeholders and government agencies to help them in understanding the implications
 of the proposed project on environmental elements within the proposed project area;
- b) To review existing legal institutional, and policy framework relevant to the proposed project;
- c) To find out impacts both environmental and social associated with implementation of the proposed project. with a view to suggesting mitigation measures for the negative impacts;
- d) To asses and give recommendations on the various mitigation measures to be taken to reduce possible negative impacts on the proposed piece of land for development;

- e) Analyze occupational health and safety issues associated with the proposed project;
- f) To determine the compatibility of the proposed facility with the neighboring land uses and evaluate local environmental conditions.
- g) Facilitating public meetings for the stakeholders to air their views.
- h) Identifying and contacting the project stakeholders to seek their views on the proposed project.
- i) To assess the relative importance of the impacts of alternative plans, design and sites;
- j) To generate baseline data for monitoring and evaluation of how well the proposed mitigation measures are being implemented during the project operation period;
- k) To develop an Environmental Management Plan (EMP) to guide in decision making and for future auditing;
- 1) To raise stakeholder awareness on potential impacts of the project on the environment with a view to making them understand the implication of the project in their environment;
- m) To develop an EIA study report in conformity with the EMCA 1999, Environmental (Impact Assessment and Audit) Regulations 2003 and EMCA (amendment) 2015 and legislation under it; and
- n) Submission of the final EIA study report to NEMA and subsequent follow up to obtain relevant authorization/permit in order for the project to commence.

1.4 EIA Study Methodology

The methodology used in the EIA Study included the following.

- a) A site reconnaissance and visual survey to determine the baseline information of the project area.
- b) Comparative study of the project with existing land uses in the neighborhood.
- c) Reviewing and analysis of the project documents
- d) Discussion with the proponent and the other consultants
- e) Assessment of the site to detail the various existing and likely impacts.
- f) Assessment of health and safety issues
- g) Seeking public views through interviews, public meeting and questionnaireadministration
- h) Proposal of mitigation measures to minimize any negative impacts.
- i) Preparation and submission of study report to NEMA

1.4.1 Screening

Screening of the project in line with legal notice No. 31 of 2019 of EMCA Cap 387. We established that the development falls under high-risk projects - (Urban development including establishment of new housing estate developments exceeding one hundred housing units) which requires submission of an

environmental impact assessment study report under section 58(2) of the Environmental Management and Co-ordination Act, 1999.

1.4.2 Approaches to undertaking the EIA Study Process

The study methodology also comprised the following activities:

1.4.2.1 Desktop Study

The desktop study involved:

- a. Initial meetings with project architects and engineers to discuss the proposed project,including activity options under consideration;
- b. Preparation of a checklist that consisted of a simple catalogue of environmental factors, which were compared with the activities to be performed;
- c. Collection and review of baseline data, maps, reports and other relevant information the existing environmental and social conditions of the project area;
- d. Review of existing legislation, regulation and policies relevant to the proposed project;
- e. Review of proposed project engineering designs and construction inputs, includinganticipated technical processes.

1.4.2.2 Field investigations

Field investigations involved:

- a. Site walks within the project area and the neighboring areas that are within the zone influenced by the project;
- b. Taking photographs of significant aspects to assist in describing the baseline environmental and social conditions of the project area and its influence zone;
- c. Taking of the site coordinates and the area elevation;
- d. Conducting public barazas and interviews with representatives of relevant key regulatory authorities within the project area and interested and affected parties mainly within the project influence zone;
- e. Obtaining relevant documents from the authorities such as the County Government, and key authorities within the project influence zone.
- f. Filling in of the questionnaires to facilitate environmental impact data collection
- g. The aim of the field investigations was to verify information and data collected during the desktop study and to collect any new information that may have been important in the assessment of impacts and design of mitigation measures.

1.5 Terms of Reference for the EIA Study

The terms of reference for this EIA study were prepared based on the findings of screening and scoping study, field visits, and information collected from both primary and secondary sources including the information provided by the Project Proponent. The TOR (Reference Number: NEMA/TOR/5/2/548) were submitted to National Environment Management Authority and approved on 2nd March 2023. *A copy of the terms of reference approval letter is attached in annex 6*

1.6 EIA Study Team

Find attached in annex 5.

1.7 Reporting and Documentation

This EIA study report was prepared in accordance with the Environmental (Impact Assessment and Audit) Regulations of 2003 (Amendment 2019) and Environmental Management and Coordination Act of 1999 (Amendment 2015). This EIA study report is prepared for purposes of presenting to NEMA for review, approval and licensing of the proposed project.

CHAPTER TWO: DESCRIPTION OF THE PROPOSED PROJECT

2.1 Site Location, Description and Ownership

The proposed project is located on plot L.R. No 1870/III/233 along School Lane, Westlands; Nairobi City County. The proposed site is on GPS Coordinates: 1°51'34.4"S 36°47'56.4"E or -1.259675, 36.7990771. A copy of the site location map is attached in annex7.

The proposed site is approximately 0.3275 Ha rectangular-shaped plot, with a relatively flat gradient and wholly owned by the project proponent. The site access roads are tarmacked. Electricity, water and sewer lines are available along School Lane. Currently, there is an existing building on the site which shall be demolished to pave way for the proposed project. *Copies of the land ownership documents are attached in annex 3.*



Figure 1: Proposed Site

Figure 1: The current status of the proposed site. *See more site photos attached in annex 8. Source: Field Survey*

2.2 The Proposed Project Design

The design consists of two blocks residential building one block will have 24 floors while the other one will have 18 floors, consisting of two basement and ground-3rd floor shall serve as parking lot, 1st to 3rd floor will have open offices space of different typologies. The residential units shall comprise of 120 two-bedroom units, 80 one-bedroom units (confined in one block) while the second block will have 36 three bedrooms units with DSQ. Internally, apartments are planned to meet the highest standards of modern day living. A spacious lounge, generous open plan kitchen/dining areas, washrooms, spacious bedrooms and private balconies oriented to maximize views from the site. This facility has a gym area and swimming pool on the terrace floor.

A copy of the proposed architectural drawings and renderings are attached in annex 9.

Plate 2: Architectural rendering of the proposed project. Source: Development Plans

2.2.1 Project Proposal Data

I. Site Size: - 0.3275 Ha

II. Current Development: - existing one story-flat roofed permanent house with threedetached semi-permanent structures on the plot.

III. Project Proposal

- 24 and 18 Floor Apartments Blocks
- 18 Floors of residential apartments a mix of one-bedroom, two-bedroom and three-bedroom with DSQ apartments
- 2 Basements and Ground Floor Parking.
- 1ST-3RD Floor Offices and Parking
- 24th Floor (Terraces/Rooftop Floor) Swimming pool and Gym

IV. Typical Units

UNIT TYPOLOGY	NUMBER OF UNITS
One Bed Room	80

Two Bedrooms	120
Three Bedrooms with DSQ	36
TOTAL	236
Parking Space	As designed on the 2 Basement Floors, Ground & 1 ST -3 rd Floor (249)

Table 1: Residential unit typologies: Source: Development Plans

2.2.2 Project Planning and Development

- a) Access road point: The Residential Development will be accessed from the School Lane as the Main Entrance. This Road connects to Waiyaki Way through Karuna Close and to Parklands Ring Road through Karuna Road. See map for direction.
- b) **Control / gates:** The Project will establish a main entrance for security screening, control and overall record keeping of the movements into/out of the plot.
- c) **Parking at basement:** There's need to provide for adequate parking and this is achieved through designated parking areas on 2 Basement levels, Ground Floor 1st-3rd Floor Levels.
- d) **Power/Generator Room location:** The power supply room with generators will belocated at the ground floor to ensure these are away from the human operations/ movements.
- e) **Garbage handling area:** A section of the site near main entrance has been designed for waste holding bay before it is collected by a private garbage company or Nairobi City County
- f) Management offices for day-to-day operations shall be located on ground floor.
- g) **Firefighting;** The Mechanical Engineer will design multiple fire point and fire extinguishers to be placed at strategic points in the building which can easily beaccessed in-case of an emergency.
- h) **Design for the disabled:** The design has made provision for the physically challenged by providing ramps along the walkways where there's change of levels. Also, a number of parking will be marked and reserved for the disabled. A lift shallserve all floors.
- i) **Flat roof**: The design for the residential blocks has provided for flat roofs which will be utilized for utility such as swimming pool, gym, drying yards and storage tanks.
- j) Materials, low maintenance/ durable floor/wall: The material specifications have picked durables, low maintenance materials e.g., wall master masonry as well as minimal painting on

the external surfaces. This will reduce the maintenance cost overthe life of the project.

- k) **Day lighting**: The designs provide large windows to all the rooms to ensure that daylighting is getting into all spaces and therefore minimize the need for artificiallighting.
- 1) **Solar water heating**: The solar water heating will be provided for bathrooms and kitchen to save on power related costs for heating water.
- m) **Solar power security lighting:** The Security lights will be solar powered; which is anintegral part of sustainable development and also low cost for maintenance.

n) Water Resources

- Rain water harvesting: The design provides for rainwater harvesting, which will be channeled into storage water tanks for cleaning the premises.
- Storm water drainage system: The structural engineer will design the storm water management systems to ensure all the surface run-off is drained off and stored forreuse and excess directed into a suitable drainage system in the area.
- Nairobi Water and Sewerage Company shall provide clean water and sewer line to manage waste water from the proposed development. Currently, the site is served by water supply from Nairobi Water and Sewerage Company.

2.3.5 Waste Management

- **Recycling:** The users will be provided with separate bins for various types of waste so that recyclable waste can be isolated for reuse.
- Proper Waste Disposal: The facility manager will coordinate the waste handling systems and will contract relevant service providers for collection and disposal of thewaste.
- An existing sewer line owned by Nairobi Water and Sewerage Company in the areato handle the wastewater from the development.

2.3 Construction Inputs and Major Project Activities

Various construction inputs will be involved in the project. The following provides asummary of key apparent inputs and activities.

2.3.1 Construction Materials

- Ordinary Portland cement bagged
- Ordinary Portland cement bulk
- Fine aggregate
- Coarse aggregate

- Concrete mix at central batch plant characteristic strength 20 MPa, slump 80mm andmaximum aggregate size 20mm
- Reinforcing steel
- Structural steel
- Machine cut stones/sand/rock sand
- Paint, varnish, anti-termite chemicals, mazeras,
- Timber, MDF boards,
- Granite tiles, boarded tiles, sanitary fittings

2.3.2 Construction Equipment and Machinery

Equipment and rating		
Bulldozers	Concrete mixer,	
Hydraulic excavators, 10-24t	Concrete vibrator, 35-63 mm diameter Self-	
Mobile cranes, 30t to 50t maxAir	propelled water tanker 6,000l Water pump	
compressors, 5m3/min	centrifugal 50 mm diameterTipper trucks, 0-	
Generator, 365kw	25t	

Table 2: Construction equipment and machinery

2.3.3 Labour

Both skilled and unskilled labour will have input of substantial man hours in providing technical supervision and mechanical operation.

2.3.4 Major Construction Activities

- a) Demolition of an existing house, site clearance and preparation
- b) Excavation and appropriate disposal of excavated soil
- c) Laying of foundation slab and walling
- d) Construction of the proposed building, masonry and concrete work, structural steel, work, electrical works, mechanical work, plastering and painting and fitting necessary fixtures and fittings
- e) Storm water and drainage construction
- f) Connection to utilities electricity, water and sewer line

- g) Cleaning and removal of construction waste and Landscaping
- h) County Government inspection/occupation certificate and completion of workscertificate issued.

2.4 Project Cost and Duration

The project is expected to cost approximately KES 523,465,865. The construction duration is estimated to take 18 months. A copy of the bills of quantities are attached in appendix 10.

2.5 Description of the Project's Operational Activities

2.5.1 Facility

Once complete the facility shall be used as a residential premise.

2.5.2 Solid Waste Management

The proponent will provide facilities for handling solid waste generated within the facility. These will include dust bins/skips for temporarily holding waste within the premises before final disposal at the designated dumping site. The solid wastes from each unit will be assembled in the garbage collection point ready for disposal by a NEMA licensed waste disposal company.

2.5.3 Waste Water and Storm Water Management

Sewage generated from building will be discharged into the existing sewer line. Storm water will be properly channeled to the existing main drainage channel in the area.

2.5.4 Cleaning

The proponent will be responsible for regular cleaning of the buildings and common areas. Cleaning operations will involve the use of substantial amounts of water, disinfectants and detergents.

2.5.5 General Repairs and Maintenance

The housing units and auxiliary facilities will be repaired and maintained regularly during theoperational phase of the project. Such activities will include repair of building walls and floors, repairs and maintenance of electrical gadgets and equipment, repairs of refrigeration equipment, repairs of leaking water pipes, re-painting, and replacement of worn-out materials among others.

2.6 Description of the Project's Decommissioning Activities

Decommissioning is an important phase in the project cycle and comes last in 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 from the site. The following should be undertaken to restore the environment:

- Demolition of the building, any; reusable material or equipment should be secured
- The site should be well landscaped by flattening the mounds of soil;
- Planting indigenous trees and flowers;
- All the equipment should be removed from the site;
- Fence and signpost unsafe areas until natural stabilization occurs;

2.6.1 Dismantling of Equipment and Fixtures

All equipment including electrical and mechanical installations, furniture partitions, pipe work and sinks among others will be dismantled and removed from the site on decommissioning of the project. Priority will be given to reuse of this equipment in other projects. This will be achieved through resale of the equipment to other building owners or contractors or donation of this equipment to schools, churches and charitable institutions.

2.6.2 Site Restoration

Once all the waste resulting from demolition and dismantling works is removed from the site, the site will be restored through replenishment of the topsoil and re-vegetation using indigenous plant species.

2.7 Construction materials, activities and waste generated during construction phase

The table below gives a summary of construction materials, activities and waste generated during construction phase of the proposed project.

Table 3: Construction Materials, Activities and Waste Generated During Construction Phase

Element	Building equipment/materials/ products	Waste generated/ by products.
Basement	Excavators, tipper trucks	Excavated soil
Foundation	Concrete, high tensile steel	Steel bars and concrete waste
	Natural stone chiseled on both sides	Stone chippings
	Excavators, back hoes	Excavated soils and vegetation
	Hard core, chemicals for anti-termite	Hard core, membrane cuttings
	treatment,	
	damp proof membrane, plinth treatment	

	materials.	
floor	Concrete, fabric mesh	
construction		Solid waste composed of
Structural	Concrete, high tensile steel	concrete and metallic waste from
frame	· · · ·	steel and wires.
External	Stone or concrete blocks, cement, sand, hoop	Solid waste composed of
façade	irons, damp proof course	concrete and metallic waste,
	Timber overlays, timber and mazeras	broken glasses, dry paint, packing
	cladding	materials, empty paint
	materials	containers, wood chippings etc.
	Aluminum window frames, window panes,	
	glazing materials, paint, ironmongery	
	Metal casement & timber paneled doors,	
	paintTimber and paint	
	Rain water harvesting system/gutters	
	Load bearing stone and water proof materials	
	,	
Internal	Concrete blocks, sand, cement	Solid waste including concrete,
division	Wooden doors	broken stones, sand, wood,
s		broken tiles, granite waste,
Floor and	Timber, granite tiles, cement, sand creed,	broken timber, MDF waste, sand,
internal wall	skirting,	plaster, granite, electrical wires,
finishes	ceramic tiles	broken electrical socks, pipes,
	Quality paint, ceramic wall tiles, plaster, sand	insulating materials etc
	screed, cement, boarder tiles	
Ceiling and	Slab and soffits finishes, Plaster, Paint, gypsum,	
soffits		
Fittings	Wardrobes made of wood, varnish, paint	
	MDF boards for cupboards, granite for	
	worktop,	
	paint.	
Internal	Pipes, sanitary facilities and drainage pipes	
plumbing		

Electrical	Wires, insulating materials, sockets, circuit	Solid waste including concrete,
installatio	breakers, flood and garden light, bulbs	broken stones, sand, wood,
n	includingbuilders work	broken tiles, granite waste,
Soil Drainage	Construction to civil engineer specifications	broken timber, MDF waste, sand,
Storm water	Ogee pipes, sand, concrete, natural stone	plaster, granite, electrical wires,
drainage		broken electrical socks, pipes,
Water supply	Pipes, tanks and water meters	insulating materials, effluent and
		storm water
Civil works	Cabro paving blocks and kerbs	
	Concrete, sand, cement	
Garden works	Red soil, manure,	Excavated soil, packaging
		materials.
		Organic matter, dead plant

2.8 Waste Management

Solid waste management will incorporate the segregation of waste at source, transportation of the waste to the central transfer station and final disposal through a contracted NEMA licensed waste handlers and recyclers. During construction phase;

- Express condition shall be put in the contract that before the contractor is issued with a
 completion certificate; the site should be clear of all debris and restore it to a state acceptable
 by the supervising architect/ project engineer and environmental consultant.
- Excess soil from excavation and foundation works shall be reused for earthworks and landscaping within the site. Excess waste shall be disposed by licensed waste haulers.

When in operation, the proponent shall provide solid waste collection bins strategically across the buildings. The proponent will contract a licensed waste handler who will collect all solid wastes at agreed intervals and dispose them at licensed dumping sites. Recyclable waste shall be held at temporary collection points awaiting collection by a licensed recycler who shall be contracted to collect at regular intervals. Skips shall also be provided which will temporarily hold the waste before collection.

During construction stage, portable toilets should be provided. Contaminated wastewater shall be channeled into a conservancy tank for storage before disposal. Effluent during operational phase shall be managed through connection to an existing sewer line

CHAPTER THREE: BASELINE CONDITIONS OF THE STUDY AREA

3.1 General Overview

Nairobi City County is estimated to have a total area of 696.1 Km² and is located between longitudes 36⁰ 45['] East and Latitudes 1⁰ 18['] South. It lies at an altitude of 1,798 meters above sea level. Nairobi City County is administratively partitioned into subcounties such as Westlands, Langata, Kibra, Starehe, Kasarani, Mathare, Ruaraka, Kamkunji, Roysambu, Embakasi South, Embakasi East, Embakasi Central, Embakasi West, Embakasi North, Dagoretti North and Dagoretti South. The proposed development is located within Westlands Sub-County within Parklands/Highridge Ward.

3.2 Physical Environmental Setting

3.2.1 Hydological, Physical and Topographic Features

The terrain in the eastern side of the County is gently rolling but divided by steep valleys towards the city boundaries. To the north, there is the Karura forest which is characterized by steep sided valleys. The Karen - Lang'ata area is characterized by plains surrounded by Nairobi National Park on the east and Ngong Forest on the south. Several streams with steep-sided valleys covered with vegetation are a dominant landscape feature of the County. The main rivers in the County are Nairobi River, Ngong River and Kabuthi River. These rivers are highly polluted as open sewers and industrial waste is directed towards them. Nairobi dam, which is along the Ngong River, and Jamhuri dam are the main water reservoirs in the County. The main types of soils are the black cotton and the red soils that form patches in different parts of the County. There are three forests in the County namely Ngong Forest to the south, Karura Forest to the north and the Nairobi Arboretum. The three forests have a total coverage of 23.192 Km².

3.2.2 Geology and Soils

The project site is covered by black cotton soil. Soils in the area are mostly deep black vertisols commonly known as black cotton soils. These soils have a high content of expansive clay that has a tendency to form deep cracks in drier seasons. The heavy texture and unstable behavior of these soils makes it difficult for different tree species to grow, and therefore the characteristic vegetation of the area is grass and shrubs. The black cotton soils are underlain by Nairobi phonolites which in turn overly Athi tuffs and lake beds of the upper Athi series, which overlay the Kapiti phonolites.

3.2.3 Climatic Conditions

The climate in Nairobi is warm and temperate. There is a great deal of rainfall in Nairobi, even in the driest month. This climate is considered to be Cfb according to the Köppen- Geiger climate classification. The

temperature here averages 18.8° C. In a year, the average rainfall is 962 mm. The average annual temperatures of the area range from 18 to 20° C, with average minima and maxima of 12-14 and $24-26^{\circ}$ C, respectively. The warmest period occurs from January to March. Average potential evaporation is between 1,550 and 2,200 mm per year.

3.3 Biological Environmental Setting

3.3.1 Flora

The county has both indigenous and exotic forests which have a wide variety of trees, plants, herbs and other floral species. The proposed site area is characterized by some local indigenous and exotic floral species which play a significant role in the ecology. Michuki Park is closest to the proposed site. It boosts of a variety of indigenous and exotic vegetation after its establishment. The proposed site has a number of tree species for instance mango, guava, jacaranda, avocado among others, the proponent promises to plant these trees in a number plot when they are cut, however, the ones on the setbacks will remain in place.



Some of the vegetation found on site. Source: Field Survey

3.3.2 Fauna

The site is situated within an area zoned for residential and agricultural land use where human activities have altered the natural habitat for wildlife over the years. Consequently, there are no major wild animals in the environs except birds, insects, and small rodents. Therefore, there is no fauna threatened by the proposed project.

3.4 Socio-Economic Setting

3.4.1 Population

According to the Population and Housing Census of 2019, Nairobi City County had a population of 4, 397, 073 people while Westlands Sub-County had a population of 308, 854 with a density of 3, 167people per square kilometer.

3.4.2 Land use and Local Economy

Westlands Sub-County (Area) is a major commercial district hosting several commercial offices, financial institutions and many multi-international institutional headquarters. These features have led to development of mixed-use development apartments or buildings for instance the area as since witnessed the development of high-rise developments like GTC, Movenpick Residences, Pinnacle Court Apartments, Austen Place, Kates Apartments among others.





3.4.3 Infrastructure and Access

The Site is located along School Lane accessed through Karuna Close off Waiyaki Way and Express Way and through Karuna Road off Parklands Ring Road. The Road is 6m wide road, the project design will create a setback of 6m to allow for easier access and movement through the way.

3.4.4 Posts and Telecommunications

Mobile communication network coverage in Nairobi County is estimated at 98% while fixed line coverage is poor with only 214 connections in the entire County. This may be attributed to the fact that fixed lines are rapidly becoming obsolete in addition to the high maintenance cost of the fixed line network. There are 19 post offices and 14 sub-post offices which are fairly distributed within the County.

3.4.4 Education Institutions

There are numerous educational institutions distributed throughout Nairobi City County. Private and public primary schools, secondary and colleges. The nearest colleges to the site is Nairobi Technical Training Institute, Public primary schools include Westlands Primary School. Secondary schools include public and private spread across Westlands for instance Nairobi School. The closest education institution is Westlands School, a public primary school, near to the proposed site.



Westlands School near the proposed site. Source Field Survey

3.4.5 Energy Access

Westlands sources its electrical energy from Kenya Power. The proposed site will not have difficulty in accessing electricity, since the power transformer is 10 meters from the proposed construction site.

3.4.6 Waste Water management

Westlands area is served by a conventional sewer line run and managed by Nairobi Water and Sewerage Company upon completion the development will be connected to it.

3.4.7 Housing and Water

Currently, Westlands gets water supply from Nairobi Water Company which is unreliable and only available rations. The proposed development will be connected to the waterline of Nairobi Water and Sewerage Company this will be supplemented by borehole water to serve the needs of the development.

CHAPTER FOUR: POLICY, LEGAL AND INSTITUTIONAL FRAMEWORK

4.1 National Environmental Policies

4.1.1 National Environmental Action Plan (NEAP)

The purpose of the National Environmental Action Plan (NEAP) is to promote and facilitate the coordination of strategies and measures to protect and manage the environment into plans and programmes for the social and economic development of Kenya. The Environmental Management and Coordination Act, 1999, established the NEAP to address the protection and management of the environment at district, provincial and national levels.

Relevance to the project

The proponent should comply with the NEAP policies and legislative with regards to preventing, controlling or mitigating specific as well as general adverse impacts on the environment. The project activities will interact with the various elements and components of the physical, social and economic environments in ways that could lead to negative impacts. Stakeholders in the project will therefore ensure that projects covered under consideration should be implemented in ways that ensure environmental integrity. Issues of environmental integrity will be addressed through project level Environmental Impact Assessments (EIAs).

4.1.2 Environmental and Development Policy (Session Paper No. 6 of 1999)

The goal of this Policy is a better quality of life for present and future generations through sustainable management and use of the environment and natural resources

Relevance to the project

The main objective of this Policy is a better quality of life for present and future generations through sustainable management and use of the environment and natural resources. The proposed project once complete will offer the best housing units to the people of Westlands Area.

4.1.3 National Environment Policy, 2012

The major objective of the policy is to provide a framework for an integrated approach to planning and sustainable management of Kenya's environment and its natural resources. The policy further ensures that the environment is integrated in all government policies in order to facilitate and realize sustainable

development at all levels. This would help promote green economy, enhance social inclusion, improve human welfare and create opportunities for employment and maintenance of a healthy ecosystem.

Relevance to the project

EIA study will be developed an environment and social management and monitoring plan to mitigate the impacts that may result during the construction and operation phases of the project. This tool is aimed at promoting coordination of environmental management of the project such that sensitive ecosystems are not destabilized by project activities. The developershould ensure that the provisions of this policy are followed to ensure the protection of the environment.

4.2 National & Local Legislative Framework

4.2.1. Constitution of Kenya (2010)

Article 42-Environment; Indicates that every person has the right to a clean and healthy environment, which includes the right to –

- a) Have the environment protected for the benefits of present, future generations throughlegislative and other measures, particularly those contemplated in Article 69, and
- b) Have obligations relating to the environment fulfilled under Article 701.

Article 43-Economic and social Rights

Indicate that every person has the right to accessible and adequate housing and to reasonable standards of sanitation.

4.2.2 County Government Act 2012:

This Act vests responsibility upon the County Governments in planning of development projects within their areas of jurisdiction on projects of importance to the local County Government or those of national importance.

Section 102 of the Act provides the principles of planning and development facilitation whichinclude integration of national values in county planning, protect the right to self-fulfillment within the county communities and with responsibility to future generations, protection of rights of minorities and marginalized groups and communities, promotion of equity resource allocation, among others.

Relevance to the proposed project

The project proponent should initiate the process of County Government engagement in the initial

project planning through application of essential development approvals from Nairobi City County Government. The proponent will comply fully with the Act.

4.2.3 The Environmental Management and Coordination Act, 1999 Revised in 2015

The Environmental Management and Coordination Act (EMCA) chapter 387, and its Attendant Environmental (Impact Assessment and Audit) Regulations of 2003 Provides for the establishment of an appropriate legal and institutional framework for the management of environment in Kenya. The Act introduces two important aspects of urban environmental management, which are directly related to the proposed project: environmental impact assessment (EIA) and environmental audit (EA). Section 58 (1) has underscored that any person being a proponent of a project Shall before financing, commencing or proceeding withsubmit an EIA report to the National Environmental Management Authority (NEMA) of Kenya. Section 68 (1) gives NEMA the mandate for carrying out all environmental audits of all activities that are likely to have significant impacts on the environment. It authorizes environmental inspectors, as appointed by NEMA to enter in any premise and determine howfar the activities carried out conform to statements in EIA study.

Compliance with EMCA

- a) The proponent has undertaken an EIA study as per the requirements of Section 58 (1)of EMCA chapter 387 awaiting approval prior to the commencement of the project.
- b) The proponent will implement the proposed EMP and adhere to the conditions set in he license of the proposed project.
- c) The proponent will adhere to subsequent EMCA legislations such as the noise andwaste regulations throughout the cycle of the project.
- d) The proponent shall undertake EA for the project and submit the reports to NEMA asper the EIA/EA guidelines

4.2.4 Physical Planning and Land Use Planning Act, 2019

An ACT of Parliament to make provision for the planning, use, regulation and development of land and for connected purposes. Section 57 (1) A person shall not carry out development within a county without a development permission granted by the respective county executive committee member. (2) A person who commences any development without obtaining development permission commits an offence and is liable on conviction to a fine not exceeding five hundred thousand shillings or to imprisonment for a term not exceeding two months or to both. (3) A county executive committee member shall require a person who has commenced a development without obtaining development permission to restore the

land on which the development is taking place to its original condition or as near to its original condition as is possible and that such restoration shall take place within ninety days.

Section 59 (1) A person applying for development permission shall ensure that any documents, plans and particulars that are provided to the respective county executive committee member while applying for development permission have been prepared by the relevant qualified, registered and licensed professionals.

Section 65 A county executive committee member may impose conditions or impose a fine to be prescribed in regulations on an applicant for development permission for building works where that applicant fails to complete the building works within five years. According to the Third Schedule Development Control,

Section 4. Planning authorities shall require applications for major developments to be subjected to environmental and social impact assessment.

Compliance with this legislation

- e) The architectural plans of the proposed development are within the requirements of the Nairobi City County zoning and ordinances guide,
- f) The proposed project has been subjected to the requisite EIA and report submitted toNEMA for licensing to acquire the EIA license.
- g) The proponent will ensure that the land is utilized in an ecofriendly manner and is restored to its original condition once the project is decommissioned.
- h) Ensure the development does not in away have injurious impact on the environmentand that a developmental footprint does not cover the entire parcel.

4.2.5 Physical Planning (Building and Development Control) Regulations

Under the provisions of the Physical Planning (Building and Development control) Regulations; The Director of Physical Planning shall refuse to recommend any new building or proposed development, or alteration or addition to any existing building if:

- i) The proposal is not in conformity with approved development plan.
- j) Such plans disclose a contravention of the physical Planning (Building and Development) rules.
- k) The plans are not correctly drawn or omit to show information required.
- On such being required, separate application accompanied by sets of plans has notbeen lodged in respect of building on separate plots or subplots etc.

- m) The proposed development is in line with the overall project site zoning guide andwill acquire an approval from Nairobi City County Government.
- n) The proponent shall adhere to the recommendations given in the building order by the county physical planner
- o) The proponent shall ensure that the building plans are available on site for inspection by county officials during construction and at any other time.

4.2.6 The Public Health Act (Cap 242) Section 15 (1x) - Nuisance

Any premise not kept in a clean and free from offensive smell such as gases which are injurious to health such as those from commercial establishments shall therefore generate nuisance. The Act therefore stresses that no person shall cause a nuisance to exist on any land or premise occupied by him. The Act acknowledge that it shall be the duty of all local authorities to take all lawful measures for maintaining its district at all times in a clean and sanitary condition for remedy of any nuisance or condition liable to be injurious to heath. To safeguard against this, part X of the public Health Act states that where in the opinion of the Medical Officer of Health that food stuffs within a warehouse, or a building are insufficiently protected, the owner shall be compelled to observe the require regulations, else he shall be guilty of an offense.

The Public Health (Drainage and Latrine) Rules made under s.126 of the Act, makes more specific provision for drainage. The Rules require the drainage of new buildings;

- Prohibit the drainage of surface water into foul water sewers;
- Prohibit the discharge into sewers of matter which may interface with the free flow of the sewage
 or injure the sewer;
- Empower the local authority to prohibit the discharge of injurious matter into sewers;
- Impose a requirement for permits to be obtained from the local authority before themaking of sewer connections or the construction of sewage treatment works.

Compliance

- p) The proponent will ensure solid waste shall be handled by a NEMA approved garbagecollector on regular basis and disposed appropriately as per the waste regulations.
- q) Sanitary facilities shall be in conformity with MOH standards and installation ofstandard fittings.

4.2.7 Occupational Health and Safety Act 2007

The purpose of this Act is to secure the safety, health and welfare of persons at work, and protect persons other than persons at work against risks to safety and health arising out of, or in connection with, the activities of persons at work. It applies to all workplaces where any person is at work, whether temporarily or permanently. Failure to comply with the OSHA, 2007 attracts penalties of up to KES 300,000- or 3-months jail term or both or penalties of KES 1,000,000- or 12-months' jail term or both for cases where death occurs and is in consequence of the employer.

Compliance

- r) The proponent shall register the site as a work place with DOSHS.
- s) The proponent will appoint a reputable contractor who will be responsible for enforcing the requirements during construction and subsequent repairs and maintenance after project completion.
- t) The proponent will make provision for the health, safety and welfare of persons employed in factories and other places of work.
- u) The proponent shall ensure that every work place shall be kept in a clean state and free from effluvia, arising from any drain, sanitary convenience or nuisance.
- v) Avail fire extinguishers, which shall be adequate and suitable in case of fire out breaks. Provide adequate means of escape in case of fire outbreak for the employees.
- w) Provide suitable PPEs for all workers.

4.2.8 The Workmen's Injury and Benefits Act, 2007

This Act provides for compensation to employees for work-related injuries and diseases contracted in the course of their employment and for connected purposes. Key sections of the Act include the obligations of employers; right to compensation; reporting of accidents; compensation; occupational diseases; medical aid; appeals; and miscellaneous provisions. Schedules provided in the Act outline the degree of disablement; occupational diseases; and dependent's compensation. In case of any accidents or incidents during the project cycle, this Act will guide the course of action to be taken

Compliance: The proponent will comply fully with the Act.

4.2.9 National Building Regulations, 2017

The National Building Regulations (NBR) is a set of rules to be used by professionals in the building industry to guide design, construction and maintenance of buildings in Kenya. The review was necessitated by the frequent disasters that have befallen the country in the recent past and the generally

decaying built environment. The NBR replaced the 1968 Building Code which has been in use since the colonial era. The 1968 Building Code had many shortcomings and could not adequately address the needs of a safer, secure, healthier, attractive and well-maintained built environment. It remained static and failed to move in tandem with the trends and shifts in building industry, such as emerging technologies and materials, green building and security intelligence. The NBR 2015 is informed by the Constitution of Kenya 2010, Vision 2030 and other relevant unfolding reviews such as the National Construction Act which seeks to register contractors in Kenya.

Section A - 5 Development Permissions; A - 5.1 No person shall develop or cause to be developed any building on land where development permissions applicable to the area have not been granted.

A - 5.2 Any person who contravenes the provisions of these Regulations shall be guilty of an offence.

Section 27 Construction

All workmanship in the erection of any building shall be in accordance with sound planning and building practice. Any building, including any structural element or component thereof, shall be constructed so as to comply with the design requirements of these Regulations.

Precautions shall be taken during all stages of construction or any building to ensure that the structural system is not damaged or distorted during the course or erection of such building.

Section A - 33 Certificates of Occupation

A - 33.1 On completion of any building works, the person for whom the building works were carried out shall apply to the approving authority for: -

- (a) a full Occupation Certificate; or
- (b) a Sectional Completion Certificate
- (c) a Temporary Occupation permit.

A - 34.5; Protection of Persons and Property

Throughout the progress of any work to which these Regulations apply, every person responsible for the erection of a building, shall ensure by suitable means the safety and protection of all persons and property liable to be affected by the work.

Compliance

a) The proponent should ensure that the regulations as guided by various approving and licensing authorities are adhered to strictly.

- b) The project proponent has submitted the building plans and the required information to the approving authority Nairobi City County Government for requisite approval before commencement of the work and regular monitoring will follow to ensure compliance with set standards and conditions.
- c) The proponent should ensure that any persons affected by the project 's activities are protected from all harm and that all hoarding of the site is made to prevent unauthorized entry.
- d) The proponent will obtain Certificate of Completion. They shall further provide fire- fighting equipment that may include one or more of the following: hydrants, hose reels and fire appliances, portable fire appliances, water storage tanks and dry risers,

4.2.10 Penal Code (Cap. 63)

The chapter on —Offences against Health and Conveniences|| strictly prohibits the release of foul air into the environment, which affects the health of other persons. Any person who voluntarily violates the atmosphere at any place, to make it noxious to health of persons in general dwelling or carrying out business in the neighborhood or passing along public ways isguilty of misdemeanor, i.e., imprisonment not exceeding two years with no option of fine. Under this Act, any person who for the purpose of trade or otherwise makes loud noise or offensive awful smell in such places and circumstances as to annoy any considerable number of persons in the exercise of their rights, commits some offences, and is liable to be punished for a common nuisance, i.e., imprisonment not exceeding one year with no option of fine.

4.2.11 The Employment Act, 2007

This Act declares and defines the fundamental rights of employees; minimum terms and conditions of employment; to provide basic conditions of employment of employees; and to regulate the employment of children, among other rights. Key sections of the Act elaborateon the employment relationship; protection of wages; rights and duties in employment; termination and dismissal and protection of children, among others.

Compliance: Contractor to be strictly advised not to engage any underage persons (under 18 years of age) to perform any form of work at the site during construction. The proponent shallalso ensure that the contractor is conversant and adheres to all the provisions of the Employment Act

4.2.12 The Energy Act 2019

The Act consolidates the laws the relating to energy & provides for National & county government functions in relation to energy. Provides for promotion of renewable energy; exploration, recovery & commercial utilization of geothermal energy; regulation of midstream & downstream petroleum and coal activities; regulation, production, supply & use of electricity & other energy forms; Enforcement &

review of environmental, health, safety& quality standards. Provision for construction permit request to be accompanied by EIA study

Compliance: The project proponent will comply with Legal Notices 43 & 102 to ensure conformity with the Energy Act provisions. The proponent will be required to address provisions raised in the Energy (solar water heating) regulations.

4.2.13 National Construction Authority Act No. 41 of 2011

An Act of Parliament to provide for the registration of contractors operating or willing to undertake construction operations in Kenya as by law through the National Construction Authority (NCA), which is constituted under Act No. 41 of 2011 Laws of Kenya. Section 15 of this Act demands registration of contractors with NCA while section 17 and 18 outlines the procedure of registration of contractors.

Compliance: The proponent will comply with the Act by ensuring that the site and project contractors are registered and certified by NCA. The proponent will also ensure that the proposed project is registered with NCA.

4.2.14 County Government by-laws

Prescribes the necessary easements required for the establishment of any project within the County.

Compliance: Ensure adherence to the by-laws provisions and acquire the necessary approvals and permits.

4.2.15 Water Quality Regulations, 2006

The law is based upon the principle that everybody is entitled to a healthy and clean environment. Section 42, is pertinent to the implementation of this project. These Regulationsshall apply to drinking water, water used for industrial purposes, water used for agricultural purposes, water used for recreational purposes, water used for fisheries and wildlife, and water used for any other purposes.

4.2.16 Noise and Excessive Vibrations Pollution (Control) Regulations, 2009

Part II of the regulations; section 3 states:

1. Except as otherwise provided in these Regulations, no person shall make or cause to be made any loud, unreasonable, unnecessary or unusual noise which annoys, disturbs, injures orendangers the comfort, repose, health or safety of others and the environment.

Compliance: The proponent shall take into concern the provisions of the local authority actto ensure that the development complies with the provisions of the Act.

4.2.17 Air Quality Regulations, (Legal Notice No. 34 of 2014)

These regulations are aimed at controlling, preventing and abating air pollution to ensure clean and healthy ambient air

Compliance: The proponent will ensure that operations at the site do not generate dust, particulates and other emissions beyond allowable limits especially during construction by deploying efficient dust screens, PPE and other dust suppression measures.

4.2.18 The Environmental Management and Co-ordination (Controlled Substances) Regulations, 2007

The regulations regulate the importation and use of Ozone Depleting Substances. Regulations No. 3 gives a classification of Controlled Substances.

Compliance: The proponent will comply fully with the Regulations by not using Ozone Depleting Substances

4.2.19 Environmental (Impact Assessment & Audit) Regulations, 2003 Amended 2019

Provides for the procedure for carrying out the EIA Provides for the contents of an EIA study report

Compliance: The EIA to be carried out in accordance to the regulations. The Project proponent is required to contract services of a license EIA expert, submit an EIA report to NEMA and acquire an EIA license before commencing any construction activities

4.2.20 The Water Act (Act No.8 of 2002) revised in 2016

Provides that a permit shall be required for any use of water from a resource, especially where there is abstraction and use of water with the employment of works. The legislation provides for the management of water resources at national and county level. Article 40(4) provides an application for a permit to which shall be subject to public consultation and, where applicable EIA in accordance with the requirements of the EMCA. 108(1) sewage & effluent management to avoid environmental pollution.

Compliance: Use of water abstracted from the natural spring requires an abstraction permit. A permit will be required from WRMA for any water borehole construction works and an abstraction license. The proponent will comply fully with the Act.

4.2.21 Waste Management Regulations (2006)

This legislation gives guidelines for handling different kinds of waste. Some of the relevantsections to the proposed project are as follows:

Part II Section 1: No person shall dispose of any waste on a public highway, street, road, recreational area or in any public place except in a designated waste receptacle

Part II Section 6: Any person who owns or controls a facility or premises which generate waste shall minimize the waste generated by adopting the following cleaner production principles:

- a) **Improvement** of production process through:
 - ✓ Conserving raw materials and energy
 - ✓ eliminating the use of toxic raw materials within such time as may be prescribed by the Authority
 - ✓ reducing toxic emissions and wastes
- b) **Monitoring** the product cycle from beginning to end by:
 - ✓ Identifying and eliminating potential negative impacts of the product.
 - ✓ Enabling the recovery and re-use of the product where possible.
 - ✓ Reclamation and recycling.
- c) **Incorporating environmental concerns** in the design, process and disposal of a product6.

Compliance

- The proponent will ensure that all waste is segregated before being transported to a
 designated waste treatment facility by a contracted NEMA licensed waste transporter
- A contracted waste handler licensed by NEMA will be responsible for safe disposal of solid wastes from the residence.

4.2.22 The National HIV Policy

The HIV policy is geared towards ensuring that new development projects encourage preventive and responsible behavior both for the workers involved in such projects and the local people within which projects are taking place as a goal towards curtailing the spread of the disease. The proponent is advised to put in place adequate measures so as to ensure that implementation of the proposed projects does not heighten the spreads of HIV and AIDS

4.2.23 The Land Act, 2012

The Land Planning Act (Cap 303)

Section 9 of the subsidiary legislation (the development and use of land Regulations 1961) under which it requires that before the local Authority to submit any plans to then minister forapproval, steps should be taken as may be necessary to acquire the owners of any land affected by such plans. Particulars of comments and objections made by the landowners should be submitted, which intends to reduce conflict

of interest with other socio-economic activities.

Land Titles Act, Cap 282

This Act makes provision for the removal of doubts that have arisen in regard to titles to land and to establish a Land Registration Court. Specific provisions include guidelines on adjudication of claims, and registration of documents after certificate of ownership is granted.

Registration of Titles Act, Cap 281

This Act provides for the transfer of land by registration of titles. Parts within the Act elaborate on mechanisms of bringing lands under the Act, grants, transfers and transmissions of land, registration of titles, and mode and effect of registration, transfers, leases, charges, powers of Attorney, and rectification of titles, among others.

Registered Land Act, Cap 300

The Act provides for the registration of title to land and provides for the regulation of dealings in land so registered, and for purposes connected therewith. The Act elaborates on the organization and administration of the Act, the effect of registration, title deeds, certificates of lease and searches, instruments and agents, transmissions and trusts, restraints on disposition, rectification and indemnity, and decisions of registrars and appeals.

Compliance: The proposed project site is registered & has a title deed. The proponent will be required to comply fully with these Acts

4.3 Institutional Framework

The environmental impact assessment for the proposed development is influenced by interest of several stakeholders and lead agencies, either exclusively or concurrently. Some of these stakeholders and lead agencies include:

- National Environmental Management Authority (NEMA)
- Director of Physical Planning
- Nairobi City County Government
- The Ministry of Environment and Natural resources
- Directorate of Safety, Occupational, Health and Services DOSHS
- National Construction Authority

National Environment Council (NEC): The council sets national goals and objectives and determine policies and priorities for the protection of the environment that are to be followed by the developer of the proposed Apartment development Project.

County Environment Committee: The project is in Nairobi County and will be subject to site visits by the County Environmental Committees. The committees will review environment related reports of the project and on occasions could attend site meetings.

National Environment Complaints Committee, NECC (Public Complaints Committee): If any disputes will arise in regards to this project, the NECC will also play an important role in the facilitation of alternative dispute resolution mechanisms relating to environmental matters.

National Environmental Tribunal: The tribunal is formed under section 125 of the EMCA, Cap 387 and handles all cases related to environmental offences in the Republic of Kenya. The tribunal's principal function is to receive, hear and determine appeals arising from decisions of the National Environment Management Authority (NEMA) on issuance, denial or revocation of environmental impact assessment (EIA) licenses, among other decisions.

Relevance: If disputes with respect to the proposed project arise, the NET will function very much like a court of law.

CHAPTER FIVE: PUBLIC CONSULTATION AND DISCLOSURE

5.1 Introduction

Public consultation is useful for gathering environmental data, understanding likely impacts, determining community and individual preferences, selecting project alternatives and designing viable and sustainable mitigation and compensation plans. Public consultation process for the apartment's development took place at the scoping stage and the EIA stage. Public participation in all stages of the project is likely to contribute to maximization of expected benefits and minimization of expected negative socio-economic impacts on the immediate environment.

5.2 Objectives of the Public consultation

The specific aims of the consultation process during the EIA study stage were:

- To inform the local people, leaders and other stakeholders about the proposed Apartments development project and its objectives;
- Obtain the main concerns and perceptions of the population and their representatives regarding the project;
- Obtain opinions and suggestions directly from the affected communities on their preferred mitigation measures;
- To find out if there are issues or places of cultural/or religious importance to the local communities that could be negatively impacted upon by the project and it infrastructure;
- To improve project design and, thereby, minimize conflicts and delays in implementation;

5.3 Stakeholder Identification

The stakeholders were identified and are categorized into two groups; that is, the primary stakeholders, and secondary stakeholders. Primary stakeholders are those who will be directly affected by the project either positively or negatively. They consist of the project proponent, project affected persons who are the local community. Secondary stakeholders are those who can influence the project and those that will be indirectly affected by the project this includes the local administration and Nairobi City County Government Officers.

5.4 Consultation Methodology and Schedule

During the EIA study, the following methods were used to gather information from the stakeholders:

- Key informant interviews;
- Public Baraza
- Questionnaires

Key informant interviews were conducted with key stakeholders to the proposed project. Please refer to table overleaf.

Stakeholder Classification		Name of the Stakeholder	Date of the Meeting		
Primary	Project Proponent	Islamic foundation	17th February 2023		
Stakeholder			In constant		
S			communicatio		
			n		
	Project Affected	Westlands Residents - Local	17 th may 2023		
	Persons	Community	18 th may 2023		
			19 th may 2023		
Secondary	Local	Chief, Westlands Location	15 th may 2023		
Stakeholder	Administration		17 th , 18 th , and ^{19th}		
S			January 2023		
		Chief Highridge Location	15 th may 2023		
			16 th , 17 th , and ^{19th}		
			may 2023		
	Nairobi City	Chief Officer-Lands, Housing,	They gave us a copy of		
	County	Physical Planning and Urban	the approved drawings		
	Government	Development	and change of user,		
			and informed us they		
			have no objection with		
			the project		
	NEMA County				
	Office				

Table 4: Stakeholder identification and consultation schedule

5.5 Stakeholder Consultation schedule

Table 5: The public barazas were scheduled as follows:

Meeting Venue	Date and time		Number	of	people	who
			attended t	he m	eetings	
Proposed project site	17/05/2023	10.00am	16			
Proposed Site on plot L.R. No. 1870/III/233, Westlands	18/05/2023	10.00am	15			
Proposed Site on plot L.R. No. 1870/III/233, Westlands	19/05/2023	10.00am	22			
	Total		53			

See attached minutes of the public meetings and attendance lists attached in annex 11

Plate 10: Selected Photos of public meetings that took place. *See attached photos of the public meetings* in annex 11





Further consultation was done through the use of semi structured questionnaires that were randomly given to the area residents 0.5-2km away. Over 53people responded to the questionnaire. See attached filled questionnaires in annex 11

5.6 Summary of issues raised from the consultation process

Generally, the local administration representatives and communities were consulted togive their views towards the proposed project since they anticipate numerous benefits upon implementation of the project.

5.6.1 Benefits of the proposed project

- Improved local socio-economy by contribution to Kenya government revenue;
- Creation of employment opportunities;
- Market for construction materials;
- Improved infrastructure;
- Maximum utilization of land and generation of revenue to the project owner
- Public consultation and awareness for gathering environmental data, understanding likely impacts, determining community/ individual preferences, designing viable and sustainable mitigation plans.

5.6.2 Problems and concerns cited on the proposed development during publicparticipation exercise.

- Possibility of air pollution / dust emissions
- Health and safety of workers;
- Noise and vibration;
- Increased generation of solid and liquid waste;
- Increased demand for water and energy use;
- Fire outbreak and degradation of road infrastructure during construction period
- Security concerns
- Local labor not utilized by the contractor
- Increased traffic during construction and operation of the proposed project
- Visual intrusion of the neighboring properties
- Make the building child and disability friendly

5.7 Future Consultations

After collection of public views on the proposed apartment's development, the proponent will be required to set the ground for future consultations with key stakeholders and the general public.

(a) Consultation approach

Throughout the project implementation, the following methods could be used to gather information from and continuously engage the various community members and other stakeholder groups:

- Key Informant Interviews;
- Public meetings (barazas);
- Roundtable meetings;
- Letters and emails;
- Public posters; and

The proponent should maintain consultation records including attendance registers, signedminutes, sample photographs for meetings, mails etc.

(b) Public availability of documents

Subject to the existing legal framework, relevant approved project reports and licensing documents should be made available at designated public offices for public inspection/accesson request. In addition to the EMP to be publicized by NEMA upon completion of the EIAstudies, the final EMP adopted should also be made available to the public.

Hard copies should be deposited at the contractor's camp sites and at the agreed sub-countyadministration offices for inspection.

(c) Publicity signage and notifications

Prior to the commencement of construction, the contractor should erect publicity signage detailing the nature of forthcoming works at the site. The signage should follow the NCAstandard. For any working front, the proponent in conjunction with the contractor will postnotifications of forthcoming works, especially the disruptive ones. In addition, localized notifications should be made for:

- Job opportunities available;
- Any traffic disruptions
- Any irregular/hazardous work practices such as excessively noise.

(f) Construction Complaints Management

A complaints management system should be instituted by the proponent to ensure that a rapidand

appropriate response is made to any public and stakeholders concerned. The proponent inconjunction with the contractor should maintain a register of complaints. Details of all complaints from the community or other stakeholders regarding any construction activities onsite as well as outcomes of any investigations or actions that result from the complaint being made, should be recorded in a complaint register.

CHAPTER SIX: ANTICIPATED IMPACTS AND MITIGATION MEASURES

6.1 Introduction

This chapter will discuss the prediction, identification and analysis of the anticipated project impacts throughout the project cycle that is construction, operation and decommissioning phases. The identified anticipated impacts emanating from the proposed project will result to effects which may be positive or negative on the environmental and social elements. Four major parameters were used to categorize the impacts, which are;

- Magnitude described as being major or minor positive/negative.
- **Duration** refers to period/time and is described as short-term, medium or long term
- Extent refers to coverage and it is evaluated in terms of being specific (localized) or widespread.
- **Reversibility** described as in terms of being reversible or irreversible.

Table 6.1: Impacts analysis throughout the project cycle

Impact	Impacts Analysis			
	Construction	Operation	Decommissioning	
Provision of quality		Major positive		
apartments		Long term		
		Localized		
		Irreversible		
Creation of	Major positive,	Major positive,	Major positive	
Employment	Short term,	Long term,	Short term	
	Widespread	Widespread,	Localized	
	Reversible	Irreversible	Reversible	
Generation of	Major positive	Major positive	Major positive	
Revenue	Short term	Long term	Short term	
	Widespread	Widespread	Widespread	
	Reversible	Reversible	Reversible	
Business opportunity	Major positive	Major positive		
for	Short term	Long term		
goods and services	Widespread	Widespread		
	Reversible	Reversible		

Solid Waste	Major negative	Major negative	Major negative
	Short term,	Long term	Short term
	Localized	Localized	Localized
	Irreversible,	Irreversible,	Irreversible
Liquid	Major negative	Major negative	Major negative
waste/Effluent	Short term	Long term	Short term
	Localized	Widespread	Localized
	Irreversible	Irreversible	Irreversible
Water demand	Major negative	Major negative	Major negative
	Short term	Long-term	Short term
	Widespread	Widespread	Widespread
	Irreversible	Irreversible	Irreversible
Energy demand	Major negative	Major negative	Major negative
	Short term	Long term	Short term
	Widespread	Widespread	Widespread

	Irreversible	Irreversible	Irreversible
Noise Pollution	Major negative	Minor negative	Major negative
	Short, Term	Short term	Short term
	Reversible	Localized	Reversible
	Localized	Reversible	Localize
Air Pollution	Major negative	Minor negative	Major negative
	Short term	Short term	Short term
	Reversible	Localized	Reversible
	Localized	Reversible	Localized
Storm water	Major negative	Major negative	Minor negative
drainage	Short term	Long term	Short term
	Widespread	Widespread	Widespread
	Irreversible	Irreversible	Irreversible
Insecurity	Minor negative	Major negative	Minor negative
	Short term	Long term	Short term
	Localized	Localized	Localized
	Reversible,	Reversible	Reversible

Occupation health	Minor negative	Minor negative	Minor negative
and safety	Short term,	Long term	Short term
	Localized	Localized	Localized
	Reversible	Reversible	Reversible
Oil pollution	Minor negative	Minor negative	Minor negative
	Short term	Long term	Short term
	Localized	Localized	Localized
	Irreversible	Irreversible	Irreversible

6.2 Positive impacts

Positive impacts that shall be associated with the implementation of the project include:

6.2. 1 Provision of housing units

The proposed development will provide 236 decent housing units.

6.2.2 Provision of employment opportunities

The proposed project will create employment opportunities for both skilled and semi-skilled workers. During the construction phase, the project will employ a large workforce including; project consultants, foremen, masons, plumbers, electricians, interior designers, cooks among others. For the operation phase, the project will employ a work force that will include cleaners, security guards and caretakers.

6.2.3 Provision of market for goods and services

During the construction phase, the project will consume a lot of building materials sourced both locally and in other parts of the region. This will have a positive impact towards the economic status of the suppliers and to the national economy through VAT rates for goods.

6.2.4 Increase in revenue to the government.

Through payment of relevant taxes, rates, the project will contribute towards the national and local revenue earnings.

6.2.5 Gains in the local economy

The economy of the neighborhood will receive a boost especially during the construction phase due to workers spending on food, drinks and other necessities.

6.2.6 Improved Security

Security will be ensured around the proposed development through distribution of suitable security

lights and presence of 24 hour registered security guards and CCTV surveillance. This will lead to improvement in the general security in the surrounding area.

6.2.7 Optimal Land Use

The development will result to a more economical use of the land without significant environmental degradation. The area has been zoned for high rise residential units, meaning that the proposed development will be in conformity with the zoning regulations.

6.3 Negative Impacts and Potential Mitigation Measures

6.3.1 Extraction and use of construction materials

Building materials such as hard core, ballast, cement, rough stone and sand required for the construction of the proposed Project will be obtained from quarries, sand harvesters etc. Since substantial quantities of these materials will be required for construction of the proposed project, the availability and sustainability of such resources at the extraction sites will be negatively affected-as they are not renewable in the short term. In addition, the sites from which the materials will be extracted may be significantly affected in several ways including landscape changes, displacement of animals and vegetation, poor visual quality and opening of depressions on the surface leading to several human and animal health impacts.

Proposed mitigation measures

- a) The Proponent will source building materials such as sand, ballast and hard core from registered quarry and sand mining firms, whose extraction sites have undergone satisfactory environmental impact assessment/audit and received NEMA approval.
- b) To reduce the negative impacts on availability and sustainability of the materials, the Proponent will only order for what will be required through accurate budgeting and estimation of actual construction requirements. This will ensure that materials are not materials where applicable. This will lead to reduction in the amount of raw materials extracted from natural resources as well as reducing impacts at the extraction sites.

6.3.2 Solid Waste Generation

Solid waste will be a major negative impact during the project cycle. The waste will consist of construction debris, cement bags, wood, broken glasses, containers, metal, sharp objects such as nails, organic waste, paper, and plastic among others during the development construction phase. The waste may result to blockage of drainage systems, choking of water bodies and have a negative impact to the human health. During operation phase, wastes may be organic emanating from the kitchen, paper,

plastic and containers. Unfit disposal of construction waste could have medium or long-term environmental and public health impact. Extent of this impact will be local to areas where waste is dumped or their immediate neighborhood.

Potential Mitigation Measures

- c) Segregation of waste at the source during the project cycle.
- d) Use of an Integrated Solid Waste Management System; through a hierarchy of options: source reduction, recycling, composting and reuse, will facilitate waste handling during operation/occupation phase.
- e) Engage the services of registered waste handlers to collect and transport waste to designated disposal sites.
- f) Provision for waste management rooms at strategic places within the development facility.
- g) Efficient use of building material to reduce waste and recycling/reuse where feasible.
- h) To manage waste in line with the Waste Management Regulations, 2006.

6.3.3 Increase Generation of Waste Water

There will be increased generation in liquid waste as a result of increased population inflow within the project site both during construction and operation phases of the development. Inadequate provision of sanitary facilities during the construction period may result to defectaion of secluded areas within the site creating unsanitary conditions and source for fly infestation. Improper liquid waste disposal may be a threat to human health for both workers and the neighboring community and also result to contamination of water resources, land and air. All liquid waste shall be properly managed through connection to the existing sewerage system that serves the area.

Potential Mitigation Measures

- i) Connecting and channeling all liquid/effluent wastes to the existing sewerage system.
- j) Provision of adequate and appropriate sanitary facilities for the workers during construction phase and tenants during the operation phase of the facility.
- k) Proper decommissioning of the sanitary facilities shall be carried out once construction is complete.
- 1) Sanitary facilities shall be kept clean always through regular cleaning.
- m) Ensure regular maintenance of foul water drainage works at the premises to prevent clogging and fore-stall breakdowns.
- n) The design of the internal sewerage system shall consider the estimate discharges from individual sources and the cumulative discharge of the entire project, that is, it will have the

- capacity to consistently handle the loads even during peak volumes.
- o) All drain pipes passing under building should be of heavy-duty PVC pipe tube encased in concrete surround.
- p) All manholes should have heavy-duty covers set and double sealed airtight as approved by specialists.

6.3.4 Air Pollution, Particles and Dust Emission

Air pollution will be a major negative impact during the construction phase as a result of increase in levels of fugitive dust emanating from the demolition, excavation, construction activities and stockpiled earth materials. This may be a public health hazard resulting to nuisance to the workers and the public. Air pollution may also be as a result of emission of fumes and particles or combustion of fossil fuels from the construction machinery. This is expected as a short term and reversible impact after the end of construction.

Potential Mitigation Measures

- Regular sprinkling of water on work areas to prevent fugitive dust violations.
- b. Use of dust nets/screens around the construction site to contain and arrest dust.
- c. Use environmentally friendly fuels such as low sulphur diesel.
- d. Minimize the period for idling of machinery and construction vehicles.
- e. Minimize exposed areas through the schedule of construction activities to enable dust control.
- f. Regular and prompt maintenance of construction machinery and equipment to minimize generation of hazardous gases.
- g. Ensure no burning of waste such as paper and plastic containers on sites/non- designated areas.
- h. Onsite dirt piles or other stockpiled material should be covered, wind breaks installed, water and/or soil stabilizers employed to reduce wind-blown dust emissions.
- i. Restricting heights from which materials are to be dropped, as far as practicable to minimize the fugitive dust arising from unloading/loading.
- j. Where a vehicle leaving a construction site is carrying a load of dusty materials, the load shall be covered entirely by clean impervious sheeting to ensure that the dusty materials will not leak from the vehicle.
- k. Provide PPEs to the workers in dusty areas on the site.
- I. Monitor the air pollution levels regularly as per the Air Quality regulations.

6.3.5 Noise and Excessive Vibrations

Noise pollution will be a negative impact and short term limited to the construction period. The noise will

be caused by the construction activities, use of heavy machineries and vehicles during transportation of materials to and from the site. Vibrations will be experienced during the excavation, concrete vibration during concreting of the structural elements and hacking of the walls and building elements during plastering of the structure. On occupation and operation of the facility, there will be minimal noise and vibrations from the units.

Potential Mitigation Measures

- a. Construction works shall be carried out only during the day from 0800hrs to 1800 hrs.
- b. Noise shields shall be used on noisy equipment, such as corrugated iron sheetstructures, to minimize the exposure to the neighbors and other workers within the site
- c. The construction vehicles and machinery shall be switched off when not in use to educe idling time.
- d. All noisy activities shall be scheduled concurrently during the construction period toreduce the exposure period to the PAPs.
- e. Equipment installed with noise abatement devices shall be used as much aspracticable.
- f. All machines and equipment shall be maintained regularly to reduce frictional noise.
- g. All workers shall be trained and provided with PPEs such as helmets, earmuffs, dustmask, etc. which will be used at all times when operating within the site area.
- h. Drivers delivering materials shall avoid unnecessary horning of the trucks/vehicles.
- i. Bill board shall be erected at the construction site entrance to notify of the construction activities and timings.
- j. Regular monitoring of noise levels at the site as per the regulations.

6.3.6 Water Demand and Usage

The demand and usage for water will increase during the project cycle. During construction, water will be required for activities such as cement mixing, curing of concrete, sprinkling of water on dusty areas to suppress dust and drinking water for workers. During operation phase, water will be needed for bathing, washing, cleaning, drinking and cooking. This will place strain on the existing water supply by Nairobi County Sewerage and Water Company.

Potential Mitigation Measures

- a. Drill a borehole to supplement the county water supply.
- b. The contractor shall use water bowers to bring in water for construction activities i.e. during periods of high water demand (i.e. during slab formation). Water fetching shall however be subject to authorization by the relevant authority.
- c. Provision of adequate underground and roof tanks for water storage that covers two days' water

demand.

- d. Use water efficient appliances and fixtures for conservation of water during the project cycle.
- e. Provide notices and information signs to sensitize on means and needs to conserve water resource i.e., "Keep/Leave the Tap Closed", etc. This will awaken the civic consciousness of the workers and residents with regard to water usage and management.
- f. Prompt detect and repair of all the water fixtures and fittings to reduce water wastage.

6.3.7 Energy Demand and Usage

There shall be increased demand and use of energy during the construction stage (fuel for running machinery and other equipment) and during operation phase (electricity used by the occupants of the units). Energy conservation is thus fundamental and shall involve optimum use of petroleum products (diesel and gasoline), electrical appliances (equipment), lighting systems and other electric machinery as used for different purposes. It also includes use of renewable energy sources.

Potential Mitigation Measures

- a. Turn off machinery and equipment when not in use.
- b. Use of solar energy as an alternative source of energy.
- c. Monitor energy use during construction and set reasonable limit.
- d. Put off all lights immediately when not in use or are not needed.
- e. Install and routine maintenance of energy efficient appliances e.g., LED bulbs etc.
- f. Exterior lights shall be controlled by a programmable timer.
- g. The water booster set will contain inverter pumps for energy saving and precisecontrol of flow and pressure rate.
- h. Generator should be provided as a full backup energy source throughout the development.

6.3.8 Surface Run-off and Storm Water Drainage

The proposed project construction phase will lead to increased release of sediments into the drainage systems. The building roofs and pavements may lead to increased volume and velocity of storm water or run-off flowing across the area covered by the building. This can lead to increased amounts of storm water entering the drainage systems, resulting in overflowand damage to such systems.

Potential Mitigation Measures

- a. Semi permeable materials will be used for construction of pavements.
- b. After completion of construction, the proponent shall embark on comprehensivelandscaping.

- c. Drainage channels shall be covered; say with gratings, to avoid occurrence ofaccidents and entry of dirt.
- d. Construct gently sloping drains to convey water at non-erosive speed directing thestorm water to the main drainage system in the area.

6.3.9 Fire Outbreak Risks Occurrence, Response and Safety

The operations that lead to fire outbreaks include poor handling of electricity systems, faulty electrical equipment, carelessness etc. These should be avoided both during construction and operation phases of the project through provision of firefighting facilities, proper training and sensitizations.

Potential Mitigation Measures

- a. Post "No smoking signs" where flammable materials are stored.
- b. Hire competent and properly authorized electrical contractor to do the electrical works.
- c. Train staff on the use of the available firefighting equipment. At least one person trained on handling firefighting equipment should be available through-out the construction phase of the project.
- d. Conduct regular firefighting drills within the site.
- e. Develop and post at the site fire emergency and evacuation procedures.
- f. Provide adequate number of appropriate firefighting equipment at accessible strategicplaces within the property.
- g. Organize for inspection and maintenance of fire equipment at least once in a period of six months.
- h. Maintain on site telephone contacts for fire brigade, G4S fire brigade and St. Johnsambulance service provider.

6.3.10 Oil Leakages and Spills on the Environment

Though this may not be common at the site, it is wise to control and observe the little that could occur especially during maintenance of the involved machinery. During operational phase, oil spills might occur at the parking lots and cooking oil from kitchens.

Potential Mitigation Measures

- a. All machinery shall be keenly inspected not to leak oils on the ground. This can be ensured through regular maintenance.
- b. Install oil trapping equipment in areas where there is a likelihood of oil spillage
- c. Maintenance will be carried out in a well-designed and protected area and where oils/grease is completely restrained from reaching the ground. Such areas should be covered to avoid storm from carrying away spilled oils into the soil/water systems.

- d. All oils/grease and materials will be stored in a site's store, in the contractor's yard.
- e. Proper disposal of oil handling materials such as drums, oily clothes/papers/materialsand cans.
- f. All drainage facilities shall be fitted with adequate functional oil-water separators and silt traps.
- g. Collect the used oils and re-use, re-sell, or dispose of appropriately using expertisefrom contracted licensed waste handlers.

6.3.11 Emergence and Spread of Social Vices

The proposed development will lead to potential for employment opportunities and access to new services which will draw people to the area more specifically the project site. This factor will further lead to a temporary increase in economic activities and employment of skills for the development. This will lead to population influx which might lead to changes in or unwanted behaviors in the area. This unwanted or change in behavior may be in the form of loose morality, an increase in school drop-out due to cheap labor, child labor, drug use and abuse, theft/robbery and increased incidences of HIV/AIDS and related infections/diseases and other communicable diseases.

Potential Mitigation Measures

- a. To minimize project effects on local social set up, the proponent will;
- b. The contractor shall ensure that there is adequate street lighting and a security guard within the site to help curb with issues that may arise from theft. Also installing 24hr operating CCTV surveillance, which will be monitored regularly.
- c. It is recommended that the contractor employs workers from the immediate area where possible to avoid social conflict
- d. Conduct periodic sensitization forums for employees on ethics, morals, general good behavior and the need for the project to co-exist with the neighbors.
- e. Offer awareness, guidance and counselling on HIV/AIDS and other STDs to employees;
- f. Provide safety tools such as condoms to employees
- g. Ensure enforcement of relevant legal policy on sexual harassment and abuse of office.

6.3.12 Occupational Health and Safety

During construction phase, there will be increased air and noise pollution which are considered harmful to human health. The neighbors and workforce involved shall be subjected to these environmental hazards putting them at high risk. Waste material such as pieces of glass and nails left lying on the ground may cause injuries/accidents to the workers on site. Food for the construction workforce is usually provided by mobile individuals most of which operates without licenses. This can compromise health of the workers especially if such foodstuffs are prepared in unhygienic conditions.

Potential Mitigation Measures

- a. Provide adequate and functional sanitary facilities for the workers.
- b. All workers shall use properly fitting PPEs to avoid injuries and illness which includeworking boots, overalls, helmets, goggles, earmuffs, masks, gloves etc.
- c. Provide appropriate signage and warnings in work areas to avoid injuries to theworkers and occupants.
- d. The contractor shall adapt a suitable emergence response plan to manage occurrence of anticipated hazards during construction phase.
- e. Safety awareness may be gained through regular safety meetings, safety training orpersonal interest in safety and health.
- f. Provide first aid facilities and ensure that workers are trained on emergency responsesuch as first aid skills.
- g. Local individuals preparing food for the workers at the site shall be controlled, monitored and evaluated to ensure that food is hygienically prepared.
- h. Workers shall always be sensitized on social issues such as drugs, alcohol, diseasessuch as HIV/AIDS and STIs etc.
- i. Comply with OSHA 2007 and all other relevant regulations governing health andsafety of workplaces.

6.3.13 Impacts on Workers' and Community Health and Safety

Workers and local community members in the project area may be exposed to various risks and hazards including falling from height during construction which may lead to fatality, falling objects, collapsing of excavations, road accidents, slips and trips, flammable and explosive substance, electrical shocks, dust, noise and vibrations, poor hygiene, fire exposures, bruises and cuts, etc.

Potential Mitigation Measures

The proponent and project contractor will implement all necessary measures to ensure health and safety of the workers and the general public during construction, operation and decommissioning of the proposed development as stipulated in the Occupational Safety and Health Act, 2007.

6.3.14 Increased Traffic

Obstruction by construction transport vehicles and construction activities adjacent to the nearby roads during the construction phase may lead to the increase traffic along School Lane. This may be exacerbated if these activities time/schedule coincide with PeakTraffic hours.

Proposed mitigation measures

- a. Ensure that the Entry/Exit to the project site is located where it will cause minimaltraffic along adjacent roads
- b. Ensure all construction vehicles to and from the construction site use the designatedEntry/Exit to the project site
- c. All transportation of construction raw materials and excavated materials are to beconducted at traffic off peak hours only
- d. Ensure there is a traffic marshal at the site directing traffic especially during morningwhen pupils are going to school and in the evening when they are going home.
- e. Sensitize truck drivers to avoid unnecessary road obstruction
- f. Cover all trucks hauling soil, sand and other loose materials to avoid spillage and dustemissions that may interfere with smooth motoring
- g. "NO PARKING" signs will be posted around the building where Parking is prohibited and likely to cause obstruction as well as other necessary traffic signs.

CHAPTER SEVEN: ANALYSIS OF PROJECT ALTERNATIVES

7.1 Introduction

In order to enable the proposed project to seek different ways of minimizing its impacts on the environment and at the same time achieve its objectives several alternatives were assessed.

7.2 'No Action' Project Alternative

This option implies forfeiting the proposed development and thus avoiding both the positive and negative impacts that would have arisen during its implementation. This option is mostly applicable in situations where the proposed project area is in ecologically sensitive areas. The land in which the proposed project is to be constructed is in a stable environment and therefore will not be affected by this development activity. From a socio-economic perspective the "no action" alternative may not be the best alternative as the numerous benefits to be gained from the development both locally and nationally would not be realized and the resources in the area would continue to be underutilized. Furthermore, this is a noble initiative that enables middle income earners dwelling in Nairobi to own homes and enjoy a sense of security for their families.

7.3 Proposed Project Alternative

In line with the zoning policies, the proposed site is in an area where commercial/residential high-rise buildings are allowed by Nairobi City County Government. The proposed project will provide modernized quality affordable housing units, create employment, increase the governments" revenue through taxes, provide a market for goods and services and ensure optimal use of the land. Thus, the project is a timely venture and this is the best option for the proposed site. Furthermore, support infrastructures such water supply system, sewer system, electricity and tarmacked roads are available in the project area.

7.4 Alternative Design

This option entails undertaking the project but with different infrastructural designs that encompass buildings layouts and location of supporting infrastructure. The presented project design was however achieved by considering the options available that would ensure cost- effectiveness and avoid or reduce environmental and social impacts as much as possible. The prevailing design shall increase commercial viability as well as its targeted balance with nature that will create ambient living conditions for its occupants. The proponent has settled on the proposed design after thorough consultation with architect and engineers. The design meets the proponent's vision and objectives.

7.5 Alternative Construction Materials and Technologies

There is a wide range of construction and furnishing materials which can be sourced locally and internationally most of which shall be low maintenance and environmentally sound. The proposed project will be constructed using reinforced concrete, natural stones for the walling, cement for mortar and plaster works, structural steel, metal scaffolds and formwork. The concrete structure will be built using locally sourced sand, cement, metal bars and fittings thatmeet the Kenya Bureau of Standards (KBS) requirements. The metal scaffolds will be advantageous than timber because it will reduce the wasting of precious trees, has a longer

lifetime, provides a steady and firm standing, easily assembled and dismantled and it increases the work efficiency.

The technologies available include the conventional brick and mortar style, concrete frame construction, prefabricated concrete panels, timber construction, steel and aluminum frame and Expanded Polystyrene Technology. The proponent has preferred the use of reinforced concrete frame construction as the technology is durable, offers outstanding resistance to explosion and/or impact and performs well during both natural and manmade disaster. Reinforced concrete can also endure very high temperatures from fire for a long time without loss of structural integrity. Priority shall be given to construction techniques and materials that is environmentally friendly, save on time and cost of construction.

7.7. Waste Water Management Alternatives

Four locally available technologies are discussed below: -

7.7.1 Alternative One: Waste Water Treatment Plant

This involves the construction of a plant that will enable the recycling of the waste water from the project activities to reusable standards and utilized within the site in activities suchas irrigating the flower gardens and flashing of the toilets. It is usually expensive to construct and maintain, but it is the most reliable, efficient and cost-effective in the long term. This option is not viable for the proposed project due to lack of space.

7.7.2 Alternative Two: Use of Stabilization Ponds/Lagoons

This refers to the use of a series of ponds/lagoons that allow several biological processes to take place, before the water is released back to the river. The lagoons can be used for aquaculture purposes and irrigation. However, they occupy a lot of space but are less costly. No chemicals are used/heavy metals sink and decomposition processes take place. They are usually a nuisance to the public because of smell

from the lagoons/ponds. This option is not preferable in the area because the required space is not only available, and the local community are not likely to accept the option.

7.7.3 Alternative Three: Use of Constructed/Artificial Wetland

This is one of the powerful tools/methods used in raising the quality of life and health standards of local communities in developing countries. Constructed wetland plants act as filters for toxins. The advantages of the system are the simple technology, low capital and maintenance costs required. However, they require space and a longer time to function. Long term studies on plant species on the site will also be required to avoid toxin accumulation in the plants. Hence it is not the best alternative for this kind of project

7.7.4 Alternative Four: Use of Septic Tank

This involves the construction of underground concrete-made tanks to store the sludge with soak pits. This option is viable in instances where the project is not served with a sewer system or is far from a sewer line.

7.7.5 Alternative Five: Use of Existing Sewer Line Systems

This involves seeking approvals from the relevant authority and connecting the proposed project development with the NWASCO sewer system that exists and offers services within the area. This is the most viable alternative since the proposed development surrounding site area is connected and served by a 1.5m wide sewer system in addressing waste water issues.

The developer has opted in using the existing sewer systems for management of waste water generated throughout the project cycle.

7.8 Solid Waste Management Alternatives

Throughout construction, the project will produce wastes such as excavated soil, wood chips, metal scraps and paper wrappings among other. Wastes to be generated during operation phase are mainly domestic in nature. The Proponent is expected to observe EMCA (Waste Management Regulations, 2006).

An Integrated Solid Waste Management System (ISWMS) is recommended for management of all solid wastes generated throughout the projects phases. The following shall be given preference in its descending order:

a) The developer shall give priority to waste reduction at source of the materials. This option will demand a solid waste management awareness programme in the management and the

residents.

b) Secondly, Reducing, Recycling, Reuse and composting of the waste. This calls for a source separation programme to be put in place. The recyclables will be sold to waste buyers within Nairobi City County or donated.

c) Finally, sanitary land filling will be the last option for the developer to consider.

CHAPTER EIGHT: ENVIRONMENTAL MANAGEMENT PLAN

8.1 Introduction

The Environmental Management Plan is an important process of ensuring project sustainability and environmental and social protection. The process and plan involve measurement of relevant parameters, at a level of details accurate enough, to distinguish the anticipated changes. It is therefore important to integrate the environmental and social impactassessment process, an environment monitoring and management plan that includes the monitoring of the progress of mitigation measures being implemented while also monitoring the project for any new negative impacts that were not earlier considered or anticipated.

Monitoring aims at determining the effectiveness of actions to improve environmental quality. The EMP outlined in the tables below addresses the identified issues of concern (potential negative impacts) and mitigation measures as well as roles, costs and monitorable time-frame that can help to determine the effectiveness of actions to upgrade the quality of environment; as regards the proposed project. The EMP have been considered for all phases; construction, operational and decommissioning phases.

8.2 Construction Phase Environmental Management Plan

Table 8. 1: Environmental management and monitoring plan during construction phase

	Source Of Impact	Potential	Controls	Responsibility	Timing	Performance Indicator	Monitoring
		Impact					Requirement
General	General	Accidents with	Provide Environmental, Health and Safety training to workers	Contractor	Construction	Trainings carried out on	Quarterly inspection
sit	construction	potential to	to ensure that they understand the requirements of the		Phase	the EMP and HSP	of training records
emanagement	activities; unsafe	cause physical	environmental, health and safety management plans as				
	site conditions;	injury,damage	applicable to their responsibilities				
	unsafe acts and	to	Ensure that workers sign a code of conduct to observe	Contractor	Construction	Signed code of conduct	Quarterly inspection
	practices	property;	established procedures and are well behaved towards the		Phase	by worker	of worker contracts
		environmental	surrounding community				
		pollution					
Visual	Site	loss of	Maintain as much as possible the natural drainage systems and	Contractor	During	Non-interference with	Regular (monthly)
an	clearance	vegetation; soil	patterns;		Construction	drainage patterns;	Inspections
d landscape	; Excavations;	erosion; siltation	Preserve the existing natural vegetation as much as possible	Contractor	During	Number of mature trees	Regular (monthly)
management	alteration of	of water courses;			Construction	cleared/retained	Inspections
	ground level;	loss of aesthetic	Ensure the protection of vegetation using any of the following	Contractor	During	Marks, Fences and flags	Regular (monthly)
	piling of spoils on	value	methods: mark, flag or fence areas of vegetation to be		Construction	around vegetation to be	Inspections
	site		preserved; designate limits of root systems (tree drip line); and			preserved; storage of	
			locate construction traffic routes, spoil piles etc away from			spoils away from	
			existing vegetation			vegetation	
			Where possible, commence landscaping activities as soon	Contractor	During	Commenced landscaping	Regular (monthly)
			superstructures are erected;		Construction	works	Inspections
			Set out a plan for re-vegetation of disturbed areas,	Contractor	During	Revegetation plan for	Once towards Project
					Construction	disturbed areas	completion

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	Prioritize indigenous trees and shrubs in the choice of plants	Contractor	During	Species of trees proposed	once-Upon	
			Construction	for revegetation	preparation	of
					revegetation plan	

	Source Of Impact	Potential	Controls	Responsibility	Timing	Performance Indicator	Monitoring
		Impact					Requirement
Air pollution,	Earthworks;	local air	Sprinkle water on work areas, and materials heaps to	Contractor	During	Dust levels at the site and	Regular (weekly)
particle and	vehicle	pollution by dust	minimize dust emissions;		construction	accesses	inspections;
dust emissions	movements;	and					sprinkling records
	transportation of	exhaus	Minimize exposed areas through the schedule of construction	Contractor	During	Disturbance	Regular (weekly)
	materials	tfumes; potential	activities to enable dust control		construction	outsid	inspections
	an	respiratory				eactive work areas	
	d wastes; running	illnesses among	Utilize vegetation, mulching, sprinkling and stone/gravel	Contractor	During	Stabilized sections at	Regular (weekly)
	of engines	impacted	layering to quickly stabilize exposed soil		construction	construction site and	inspections
	an	neighbors				accesses	
	dmotors		Identify and stabilize primary entrances/exits prior to	Contractor	During	Stabilized	Regular (weekly)
			commencement of construction;		construction	sit	inspections
						eentrance/exit	
			Direct construction vehicular traffic to stabilized roadways	Contractor	During	Existence of stabilized	Regular (weekly)
					construction	roadway; Use of	inspections
						stabilized roadways by	
						construction traffic	
			Maintain equipment and machinery to manufacturers'	Contractor	During	opacity of exhaust gases	Quarterly inspection
			specifications by regular servicing to maintain efficiency in		construction	from vehicles; Regular	of
			combustion and reduce carbon emissions;			maintenance of vehicles;	maintenanc
						vehicle maintenance	erecords

				schedule	
	Use environmentally friendly fuels such as low Sulphurdiesel;	Contractor	During construction	Type of fuel in use	Quarterly inspection of maintenanc erecords
	Minimize the period for machinery idling	Contractor	During construction	Existing practices and awareness of operators about machinery idling	Quarterly inspection of maintenanc erecords
	Ensure that no burning of waste is done on site; and	Contractor	During construction	Waste Disposal methods in use	Weekly inspection of practices
	Provide appropriate Personnel Protective Equipment such as dust masks to site workers.	Contractor	During construction	Existence and usage of PPE	Weekly inspection of usage of PPE

	Source Of Impact	Potential	Controls	Responsibility	Timing	Performance Indicator	Monitoring
		Impact					Requirement
Energy	Use of fossil fuel-	Increased	Ensure the use of rated equipment in welding and related	Contractor	During	Rating cards/plaque on	One-time inspection
demand	ran	demand on fossil	works;		Construction	equipment	of existence of rating
an	and/o	fuel					cards on equipment
dusage	r electricity-ran	an	Maintain equipment and machinery to manufacturers'	Contractor	During	Established maintenance	Quarterly review of
	equipment in	d	specifications by regular servicing to maintain efficiency in		Construction	schedules for equipment	maintenance records
	construction	electricity to run	combustion and reduce carbon emissions			in use	for adherence to
	works	equipment					schedules

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			Use environmentally friendly fuels such as low Sulphur	Contractor	During	Type of fuel in use on	Quarterly review of
			diesel;		Construction	equipment	the fuel type in use
			Minimize the period for machinery idling to save on fuel	Contractor	During	Existing practices and	Visual observation of
					Construction	awareness of operators	practices in weekly
						about machinery idling	inspections
			Specify and procure the most energy efficient plant options fit	Contractor	During	List of requirements for	inspection of
			for purpose and avoid use of plant with unnecessary and		Construction	each type of equipment	equipment against
			excess capacity				specifications
Noise	Nuisance	Potential to	Install portable hoods to shield compressors and other small	Contractor	During	Presence of noise	monthly inspection
an	t	cause physical	stationary equipment where necessary		Construction	attenuation features on	of equipment
d vibrations	o surrounding	injury, damage				equipment	featuresand state
management	communities	t	Endeavour to use equipment installed with noise abatement	Contractor	During	Presence of noise	Monthly inspection
		o property;	devices as much as practicable;		Construction	attenuation features on	of equipment
		environmental				equipment	featuresand state;
		pollution	Reduce idling time on trucks and other noisy equipment	Contractor	During	awareness of operators	quarterly
					Construction	about machinery idling	nois
							e measurements at
							point sources
			Encourage drivers to turn off vehicle engines when not in use	Contractor	During	Switch off machinery	quarterly
			and avoid unnecessary hooting/revving of engines;		Construction	when not in use	nois
							emeasurements
			Provide personal protective equipment such as ear muffs to	Contractor	During	Existence and usage of	Weekly inspection of
			workers at the site as necessary; and		Construction	PPE	usage of PPE
			Carry out construction work during the day only. No works	Contractor	During	Defined construction	
			shall be carried out on Sundays		Construction	hours of between 7am	
						and 6pm	

	Source Of Impact	Potential	Controls	Responsibility	Timing	Performance Indicator	Monitoring

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		Impact					Requirement
Increased	Construction	Increased	Close water taps when not in use. Repair broken pipes	Contractor	During		
Water	water needs;	demand in the			Construction		
demand and	generation of	project	Ensure that water is used efficiently by avoiding extravagant	Contractor	During	Instituted measures for	Continuous review of
usage	wastewate	area	water use and wastage;		Construction	efficiency in consumption	usage and water
	r during	; contamination					requirements
	construction works	ofsurface	Monitor water consumption and maintain records;	Contractor	During	Installed consumption	Monthly inspection
		and			Construction	meter(s); records of	of records
		ground				deliveries by bowsers	
		wate	Harvest storm water wherever possible to supplement other	Contractor	During	Water	Quarterly review of
		rresources	sources of water;		Construction	harvestin	water harvesting
						ginfrastructure at the site	opportunities
			Channel construction wastewater into temporary holding	Contractor	During	Presence of a sump for	Visual observation in
			ponds to allow sedimentation before release in to the		Construction	holding construction	weekly review of
			environment; and			wastewater	effectiveness of the
							sump
			Recycle and reuse construction wastewater wherever possible	Contractor	During	Evidence of recycling of	Monthly review of
					Construction	wastewater at the site	opportunities for
							reuse or used of
							recycled water
Soil erosion	Excavation for	Compaction of	Salvage, stockpile and ensure re-use of native topsoil during	Contractor	During	Preservation and reuse of	Visual observation in
	foundations;	soil by vehicles	re-vegetation activities in disturbed areas		Construction	topsoil at the site	quarterly inspection
	leveling of the	leading to loss of					of soil management
	site;	soil structure and					practices
	compactio	increased	Identify fertile soil borrow-pits as close as possible to the	Contractor	During	Nearness of identified	One-time inspection
	n of the soil by	susceptibility to	project site;		Construction	borrow pits	of identified borrow
	construction	erosion;					pit

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vehicles	depletion of	Ensure re-vegetation of disturbed areas as soon as possible to	Contractor	During	Time lag between	Visual observation in
and	fertile top soil at	prevent soil erosion;		Construction	disturbance actions and	monthly inspection
machinery;	the site;				revegetation	of activities and
storage and	contamination of					program of works
handling of	soil	Ensure that construction vehicles use predetermined tracks at	Contractor	During	Established tracks/paths	Visual observation in
hazardous	resource	the site to reduce ground compaction;		Construction	for use by construction	weekly inspection of
materials	S				vehicles	the site for extent of
and wastes	from spillages					compaction outside
at the site	and leakages of					
	hazardous					
	materials					
	and					
	wastes; erosion					

and					established tracks
sedimentation of					
surface	Utilize vegetation, mulching, sprinkling and stone/gravel	Contractor	During	Stabilized sections at	Visual observation in
wate	layering to quickly stabilize exposed soil Utilize vegetation,		Construction	construction site and	monthly inspection
rresources	mulching, sprinkling and stone/gravel layering to quickly			accesses	of accesses
	stabilize exposed soil				
	Identify and stabilize primary entrances/exits prior to	Contractor	During	Stabilized	Visual observation in
	commencement of construction		Construction	sit	monthly inspection
				eentrance/exit	of entry/exit for
					effectiveness of
					stabilization
	Construction wastewater shall be channeled to a	Contractor	During	Presence of a sump for	Visual observation in
	predetermined area such as a temporary holding pond where		Construction	holding construction	weekly inspection of
	sedimentation can take place and reduce the amount of soil			wastewater	use and effectiveness
	carried away in wastewater;				of the sump

			Oils, fuels, paints and any hazardous materials to be stored in	Contractor	During	Storage of hazardous	Visual observation in
			accordance with their respective MSDS's, and in such a		Construction	chemicals and wastes in	weekly inspection of
			manner to avoid spillages or leakages. Bund walls should be			bunded areas	storage practices and
			constructed around these substances' storage area so as to				evidence of
			enable containment in the event of spillage or leakage				leakage/spillage
			Implement erosion and sedimentation controls and ensure	Contractor	During	Use of silt traps on	Monthly inspection
			proper disposal of liquid waste		Construction	potential erosion	of effectiveness of
						channels	silt traps
Traffic	Construction	Accidents	Contractor shall ensure that construction traffic movement	Contractor	During	Delivery times for	Review of delivery
managemen	vehicles	involving	does not coincide with the known rush hours in the project		Construction	materials and carting of	records for delivery
t	movements in the	the	area, and that speed and loading limits are observed			wastes; established	times
	project area	surrounding				speed limits	
		community;	Develop a traffic management plan to ensure that site vehicles	Contractor	During	Established Traffic	Monthly review of
		nuisance from	do not interfere with the regular traffic on the access roads, or		Construction	management plan	effectiveness of the
		snarl ups	pose safety hazards to site workers or the general public				Traffic management
							plan
			Set up traffic control/warning signs along the access road near	Contractor	During	Erected warning signage	Visual observation in
			the site entrance informing other motorists of potential		Construction	at critical areas	weekly inspection of
			hazards of construction vehicles turning				signages
	1				1	1	ı

	Source Of Impact	Potential	Controls	Responsibility	Timing	Performance Indicator	Monitoring
		Impact					Requirement
Oil leakages	Construction	Soil,	Proper storage, handling and disposal of new oil and used oil	Contractor	During	Vehicle	Daily inspection
and Spills on	Machinery	wate	and related wastes		construction	maintenanc	
the		rpollution				eschedule	
environment			Maintain construction machinery and equipment to avoid	Contractor	During	Vehicle	Routine maintenance
FEBRUARY 20	23		leaks	80	construction	maintenanc	

PROPOSED APARTMENTS DEVELOPMENT IN WESTLANDS

	I			T	1	1	
						eschedule	
			Maintenance of construction vehicles to be carried out in the	Contractor	During	Vehicle	Routine maintenance
			contractor's yard (off the site)		construction	maintenanc	
						eschedule	
			Provide oil interceptors along the drains leading from service	Contractor	During	Vehicle	Routine maintenance
			bays		construction	maintenanc	
						eschedule	
Solid	Demolition works	Generation of	Identify a temporary holding area for demolition and	Contractor	During	Identified area for storage	Weekly inspection of
Wast	for existing	construction	construction wastes;		Construction	of wastes	housekeeping
emanagement	structures; Use of	wastes that	Recycle and re-use demolition and construction waste as	Contractor	During	Amount of recycled	Monthly review of
	materials in	cause	much as possible;		Construction	wastes at the site	records on quantities
	construction;	environmental					of recycled materials
	rejection of	pollution,	Ensure that all non-recyclable/reusable wastes are cleared	Contractor	During	Existent plans for off-site	Weekly review of
	defective	nuisance	from site at the earliest opportunity to avoid pile-up;		Construction	disposal of wastes	waste management
	construction	an					practices
	materials;	d breeding	Avoid mixing excess concrete if possible. Discard excess	Contractor	During	Amount of concrete that	Review of quantities
	packaging of	grounds for	concrete in a designated area;		Construction	is disposed as waste	of concrete wastes
	materials	vermin					generated
			Washing of concrete-coated vehicles/equipment off-site or in	Contractor	During	Designated wash area; an	Weekly review of
			a designated area. The concrete wash area will be at least 50m		Construction	existent concrete	usage of wash area
			away from storm drain inlets or open drainage facilities.			washoutpit at the site	and maintenance of
			Runoff from onsite concrete wash area shall be contained in a				washout pit
			temporary pit where concrete can set;				
			Surface runoff within the site to be diverted in order to avoid	Contractor	During	Installed sediment traps;	Monthly review of
			flushing away soil and other material. Sediment traps to also		Construction	lined drain for channeling	effectiveness of the
			be installed to remove sediments before discharge of the			of runoff	site drainage
			runoff from the site;				
			Establish measures to ensure that construction material	Contractor	During	Existent stock	Quarterly review of
]			requirements are carefully budgeted to avoid leftovers;		Construction	management plans	inventories to
FEBRUARY 20	123		I	81	1	l .	

		Source Of Impact	Potential	Controls	Responsibility	Timing	Performance Indicator	Monitoring	ì
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	Source Of Impact	Potential	Controls	Responsibility	Timing	Performance Indicator	Monitoring
		Impact					Requirement
Health and	Use of hand tools	Physical injuries	All workers will be sensitized before construction begins, on	Contractor	During	Level of compliance with	Routine inspection
safety of	and machinery in	to workers	how to control accidents related to construction.		Construction	OSHA provisions	
workers	and machinery in construction; construction vehicle movements; housekeeping practices at the construction site; unsafe acts by construction workers	to workers and/orthe public; damage to property	how to control accidents related to construction. A comprehensive contingency plan will be preparedbefore construction begins, on accident response. Keep record of the public emergency service telephone numbers including: Fire brigade, Ambulance. Accordingly, adherence to safety procedures will be enforced. Provide first aid kits at strategic places in the site. All workers to wear protective gear during construction e.g. helmets. Provide clean water and food to the workers. Construction work will be limited to daytime only. Workers to be adequately insured against accidents. Ensure that the workers are registered with NHIF and NSSF and remits appropriate fee Develop and implement a detailed and site-specific Emergency Response Plan Provide adequate sanitary facilities on site; and Provide for First Aid facilities as per the OSHA, 2007, and ensure that workers are trained on emergency response such as first aid skills;	Project manage r	Construction	OSHA provisions	

PROPOSED APARTMENTS DEVELOPMENT IN WESTLANDS

	Provide and clearly display emergency contacts on site;		

	Source Of	Potential	Controls	Responsibility	Timing	Performance	Monitoring
	Impact	Impact				Indicator	Requirement
Raw	Extraction of	environmenta	Source construction materials such as sand, ballast,	Contractor	During	Available permits for	Annual check of
materials	raw materials	I degradation	quarry stones, and hard core from registered and		Construction	materials sites	the licensing status
extraction	such as sand,	atquarry sites	approved quarries and sand mining firms;				of materials
and use in	masonry						sources
constructio	stones, ballast		Implement stringent inventory management	Contractor	During	existent stock	quarterly review of
n			mechanisms and only order for materials after a fairly		Construction	management	procurement
			accurate estimation of actual construction			plans	plans for materials
			requirements; and				
			Manufacture building elements off-site where	Contractor	During	Existing arrangements	Quarterly review
			possible, and deliver to site.		Construction	for offsite preparation	of opportunities
						of building elements	for off-site
							manufacture of
							elements

EIA STUDY REPORT

PROPOSED APARTMENTS DEVELOPMENT IN WESTLANDS

Generatio site pollution the existing sewerage system. constructio n of Waste Provision of adequate sanitary facilities for the workers		Workers at the	t the Soil and water	Connecting and channeling all liquid/effluent wastes to	Contractor	During	
n of Waste Provision of adequate sanitary facilities for the workers	si	site	pollution	the existing sewerage system.		constructio	
during construction and tenants during the operation phase of the facility. Proper decommissioning of the sanitary facilities shall be carried out once construction is complete. Sanitary facilities shall be kept clean always. Ensure regular maintenance of foul water drainage works at the premises to prevent clogging and fore-stall breakdowns. All drain pipes are heavy duty PVC pipe tube encased in concrete surround. All manholes should have heavy-duty covers set and double sealed airtight as approved by specialists.				phase of the facility. Proper decommissioning of the sanitary facilities shall be carried out once construction is complete. Sanitary facilities shall be kept clean always. Ensure regular maintenance of foul water drainage works at the premises to prevent clogging and fore-stall breakdowns. All drain pipes are heavy duty PVC pipe tube encased in concrete surround. All manholes should have heavy-duty covers set and			

	Source Of	Potential	Controls	Responsibility	Timing	Performance	Monitoring
	Impact	Impact				Indicator	Requirement
Surface Run-off	Rain water	Flooding	Semi permeable materials will be used for construction	Contractor and	During	Clean and	Routine inspection
and Storm Water		and	of pavements.	proponent	construction	unclogged	
Drainage		accidents	After completion of construction, the proponent shallembark on comprehensive landscaping. Drainage channels shall be covered; say with gratings, to avoid occurrence of accidents and entry of dirt. Construct gently sloping drains to convey water at nonerosive speed directing the storm water to the main drainage system in the area.		andoperation	drainage	

Fire Outbreak Any	y source that Destruction	a) Post "No smoking signs" where flammable materials	Contractor and	During	No fire outbreaks	Routine inspection
Risks Occurrence, may	ay ignite fire of	are stored.	proponent	construction		
	cause fire of properties, loss of lives	are stored. b) Hire competent and properly authorized electricalcontractor to do the electrical works. c) Train staff on the use of the available firefighting equipment. At least one person trained on handling firefighting equipment should be available throughoutthe construction phase of the project. d) Conduct regular firefighting drills within the site. e) Develop and post at the site fire emergency andevacuation procedures. f) Provide adequate number of appropriate firefighting equipment at accessible strategic places within the property. g) Organize for inspection and maintenance of fire equipment at least once in a period of six months. h) Maintain on site telephone contacts for fire brigade, G4S fire brigade and St. Johns ambulance service provider.	proponent	andoperation		

Emergency and	Workers and	Spread of	To minimize project effects on local social set up, the	Contractor and	During	Scheduled review
spread of social	tentants	HIV and	proponent will;	proponent	construction	
spread of social vice	tentants	HIV and security risks	proponent will; The contractor shall ensure that there is adequate street lighting and a security guard within the site to help curb with issues that may arise from theft. Also installing 24hr operating CCTV surveillance, which will be monitored regularly. It is recommended that the contractor employs workersfrom the immediate area where possible to avoid socialconflict Conduct periodic sensitization forums for employees on ethics, morals, general good behavior and the need for the project to co-exist with the neighbors. Offer awareness, guidance and counselling on HIV/AIDS and other STDs to employees; Provide safety tools such as condoms to employees Ensure enforcement of relevant legal policy on sexual	proponent	construction	
			harassment and abuse of office.			

8.3 Operation Phase Environmental Management Plan

Table 8. 2: Environmental management and monitoring plan during Operation phase

	Source Of Impact	Potential Impact	Controls	Responsibility	Timing	Performance Indicator	Monitoring Requirement
Noise	Use of the standby power	Noise nuisance	Ensure that noise abatement devices	Proponent	Operatio	Noise levels from the	Annual noise
management	generator		are installed and maintained for the	·	nPhase	standby	measurements
	during grid-power outages		standbygenerator for power supply			generator when in use	
Energy	Use of electrical	Increased demand	Encourage members to conserve energy	Proponent	Operatio	Institute awarenes	Annual audit
resource	appliances;	on grid	through awareness programs		nPhase	d and s	
management	lighting within	energy supply				program conservatio	
	the					n	
	development		Install and maintain energy efficient	Proponent	Operatio	Installed energy	Annual audit
			appliances e.g., indoor lights and		nPhase	efficient	
			outdoor security lights; and			lighting	
			Continually seek avenues for energy	Proponent	Operatio	Other energy-saving	Annual audit
			conservation as international best		nPhase	measures instituted	
			practices evolve				
Water	Usage of water by tenants	Increased water	Incorporate water accounting systems	Proponent	During	Installed water meters	Annual EA
resource		demand;	and metering for all areas;		Operatio		
managemen					n		

t	ased	Encourage members to conserve water through awareness programs;	Proponent	During Operatio n	Instituted awareness programs	Annual EA
		Install and maintain low volume fixtures in toilets, baths and other wet areas;	Proponent	During Operatio n	Installed low-volume fixtures	Annual EA
		Use harvested storm water in cleaning and irrigation of lawns; and	Proponent	During Operatio n	Use of harvested stormwater around the compound	Annual EA
		Continually seek new avenues for water conservation as International best practices evolve.	Proponent	During Operatio n	other conservation measures institute	

	Source Of Impact	Potential Impact	Controls	Responsibility	Timing	Performance	Monitoring
						Indicator	Requirement
Waste	Occupation of the housing	Generation of	Pursue waste minimization at source	Proponent	Operatio	Implemented	Annual
managemen	by the	wastes;	principles e.g., zero generation,		nphase	measures for	environmenta
t	tenants;	environmental	reduction, re- use and/or recycling;			reuse/recycling at	I
	consumption/use of					household level	audit
	materials	pollution					auuit

i i				Ι	T
an	Provide mechanisms to segregate	Proponent	Operatio	Established	Annual
dcreation of health	wastes at source, ensure that all wastes		nphase	mechanisms that allow	environmenta
and	are stored temporarily at the designated			segregation;	1
safety hazards from	common collection area, and that they			Contracted waste	audit
	are regularly carried away for disposal			handler; waste	addit
mismanagement	in designated areas; and			collection schedule	
of wastes					
	Ensure regular inspection and	Proponent	Operatio	Maintenance/inspectio	Annual
	maintenance of foul water drainage		nphase	n schedule; Blockage	environmenta
	works and storm water drainage works			incidences	1
	at the premises to prevent clogging, and				audit
	fore-stall breakdowns.				audit
	Waste water to be direct to sewer line.	Proponent	Operatio	Maintenance/inspectio	Waste
	Ensure there is no blockages or leakages		nPhase	n schedule; Blockage	wate
				incidences	ranalysis
					Obtain discharge
					_
					license from
					NEMA
		Proponent	-		Routine
			nPhase	mechanisms that allow	inspection
				segregation;	Annual
				Contracted waste	environmenta
				handler; waste	1
	amough a necrised waste recycler			collection schedule	
					Audit
	dcreation of health and safety hazards from mismanagement	dcreation of health and safety hazards from mismanagement of wastes Ensure regular inspection and maintenance of foul water drainage works at the premises to prevent clogging, and fore-stall breakdowns. Waste water to be direct to sewer line.	dcreation of health and safety hazards from mismanagement of wastes Solid waste from garage including brake pads, metal objects, plastics should be disposed of fappropriately	dcreation of health and safety hazards from mismanagement of wastes Ensure regular inspection and maintenance of foul water drainage works at the premises to prevent clogging, and fore-stall breakdowns. Waste water to be direct to sewer line. Ensure there is no blockages or leakages	dereation of health and safety hazards from mismanagement of wastes Solid waste from Ensure there is no blockages or leakages

	Source Of Impa	ct	Potential Impact	Controls	Responsibility	Timing	Performance	Monitoring
							Indicator	Requirement
Fire hazards	Kitchens,	electrical	Destruction of	Post "No smoking signs" where	Proponent	Operatio		Routine
	components,	fire	properties, loss of	flammable materials are stored.		nphase		inspection
	components, negligence	fire	properties, loss of life	 Hire competent and properly authorized electrical contractor todo the electrical works repair works. Train staff and tenants on the use of the available firefighting equipment. At least one person trained on handling firefighting equipment should be available through-out the operation phase ofthe project. Conduct regular firefighting drills within the site. Develop and post at the building 		nphase		inspection Annual environmenta I audit
				fire emergency and evacuation procedures.				

 Provide adequate number of appropriate firefighting equipment at accessible strategic places within the building. 	t	
 Organize for inspection and maintenance of fire equipment at least once in a period of six months. Maintain on site telephone contacts for county fire brigade, and emergency service providers. 		

Security	Bulgerly, Theft	Loss of property,	Guarding of the property by	Proponent	Operation	Routine
	cases, domestic violence	loss of life	reputable security firm.	Contractor	Phase	inspection
			No outsiders should access			
			the property without			
			permission.			
			Partnership with the neighbours topromote security in the area			
			Install CCTV cameras in general			
			areas to monitor suspicious			
			activities.			

	Report any security incidences to police.			
Traffic flow	 Adequate road warning signs to traffic regulations Erect speed pumps. Liaise closely with other development partners and government and county's Departments to upgrade the existing road networks. Main Entrance and exit to the building should be separate to avoid congestion, A traffic marshal to control traffic in the morning and evening especially due to school going children. 	Proponent	Operation Phase	Routine inspection

Table 8. 3: Occupational Health and Safety Matrix for the proposed project during construction and operational phase

Key Issues	Mitigation Measure	Responsibility	Time Frame	Cost Ksh.
Registration of	Register the premises under the Occupational Health and Safety Act Cap 514, of the Laws of	Proponent	One-off	5, 000
the premises	Kenya is mandatory			Permit license
				to be
				determined by
				DOSHS
General	Keep a general register of all workers within the facility as stipulated in Sec 62 (1) of the	Proponent, contractor	Construction	500
register	Occupational Health and Safety Act			
Incidents and	Report any incidents and accidents using prescribed forms obtainable from the Occupational	Site Safety Officer	Continuous	500/month
accidents	Health and Safety Office			
	Conduct regular safety education and training	Site Safety Officer	Quarterly	4,000
	Prepare a contingency plan for emergency response before the start of the project.	Site Safety Officer	One-off	10,000
Insurance	Insure the premises as per statutory requirements (third party and workman's compensation)	Proponen and all	Annually	
		t		
		occupants		
Safety healthy	Develop, document and display prominently an appropriate Safety and Healthy Environment	Site Safety Officer	One-off	2,000
environment	policy			
(SHE) policy				
Sanitary	Provide suitable, efficient, clean, well-lit and adequate sanitary amenities at the site taking		One-off	100,000
convenience	care of gender division			
S				
Machinery/eq	Ensure that machinery, equipment, PPE, appliances and tools to be used comply with the	Contractor,	One-off	-
uipment safety	prescribed safety and health standards and be appropriately installed, maintained and	CONTRACTOR,		

	safeguarded	proponen		
		tand all occupants		
Storage of	Ensure that materials are stored or stacked in such manner as to ensure their stability and		Continuous	-
material	prevent any fall or collapse			
S				
Safe of access	All floors, steps, stairs and lift of the premises must be of sound construction and be properly		Continuous	-
in	maintained			
th				
e				
buildings				

Key Issues	Mitigation Measure	Responsibility	Time Frame	Cost Ksh.
Emergency	Design suitable documented emergency preparedness and evacuation procedures for	Site Safety Officer	One-off	1,000
preparedness	emergencies			
and				
evacuation				
procedures				
First Aid	on site a stocked first aid box which is easily available and accessible	Site Safety Officer	One-off	2, 000/kit
Fire protection	Regularly inspect and service fire-fighting equipment by a reputable service provider and maintain inspection records	Site Safety Officer	Every 3 months	5,000
	Prominently display signs such as "NO SMOKING" at the site especially in parts where inflammable materials are stored	Site Safety Officer	One-off	500

Ventilation	Provide adequate space within the premises to allow for adequate natural ventilation through	Contractor, occupants	One-off	-
	circulation of fresh air			
Lighting	Provide adequate artificial or natural lighting in all parts of the premises where persons are	Contractor, all occupants	One-off	-
	working or passing			
Electrical	Do not overload circuits	Proponent	Continuous	-
safety	Clearly mark distribution board switches to indicate respective circuits and pumps	an	One-off	-
	Ensure that no live electrical wires are exposed	dContractor,	Continuous	
	Earth all electrical equipment		One-off	5,000
Diseases	Provide complete refuse collection and handling service		Continuous	5,000
Security	Fence the site and employ security personnel operating 24 hours		Continuous	80,000
	Install security alarms and/or surveillance systems.			

8.4 Decommissioning Phase Environmental Management Plan

Table 8. 4 Decommissioning Phase Environmental Management Plan

Note: An environmental Audit should be undertaken and submitted to NEMA prior to decommissioning the project.

Environmental/	Social Proposed Mitigation Measures	Responsibility	Monitoring	Recommended	
Impact				frequency o	f
				monitoring	

Demolition of existing	 Apply for demolition permit from relevant authorities before 	Project	Inspection	Daily during
structures	commencing the demolition	proponent		the
	 Engage a registered contractor to carry out the demolition 	Contractor NEMA inspectors		demolition process
	Provide workers with Personal Protective Equipment (PPEs)			
	The demolition exercise to be limited at day time only			
	Comply with EMCA (Noise and excessive vibration.			
Air pollution	Dust suppression with water sprays on dusty areas	Proponent	Inspection	Daily
	 Careful screening of construction site to contain and arrest construction related dust 	Contractor NEMA inspectors		
	 Ensure demolition machinery and equipment are well maintained to reduce exhaust gas emission 		Routine maintenance	
Noise pollution	■ Demolition activities to be restricted to daytime i.e. 8am to 5pm	Proponent Contractor	Inspection	Random
	 Use of Suppressors on noisy equipment or use of noise shields for instance corrugated iron sheet structures 	Workers NEMA inspectors		
	• Workers in the vicinity or involved in high level noise to wear respective safety & protective gear.		Observation	
	Comply with EMCA (Noise and excessive vibration pollution control Regulations 2009		Routine maintenance	

Safety of workers	•	All workers will be sensitized before demolition begins, on how to				activities che	cks	
		control accidents related to construction.	Workers	Proponent	NEMA			
	•	Accordingly, adherence to safety procedures will be enforced.	inspectors					
	•	All workers will be adequately insured against accidents.						
Solid and liquid waste	•	Ensure proper solid waste disposal and collection facilities	Contractor	Proponent	NEMA	Routine	Activities	Daily
	•	Refuse collection vehicles will be covered to prevent scatter of wastes	inspectors			checks		
		by wind.	Registered	/licensed				
	•		emanagem	nent company	wast			
		final dumping at unauthorized sites.						
	•	All persons involved in refuse collection shall be in full protectiveattire						
Re-vegetation and	•	Implement an appropriate re-vegetation programme to restore the site	Contractor	Proponent		Inspection		Random
comprehensive		toits original status						
landscaping	-	During the re-vegetation period, appropriate surface water run off						
		controls will be taken to prevent surface erosion;						
	•	Monitoring and inspection of the area for indications of erosion will be						
		conducted and appropriate measures taken to correct any occurrences;						
	•	Fencing and signs restricting access will be posted to minimize						
		disturbance to newly-vegetated areas;						

CHAPTER NINE: SITE SAFETY MEASURES

9.1 Project Employee Responsibilities

- a) Project Manager- must lead project team by setting an example for safety awareness as well as developing, communicating and supervising the safety program. The project manager must enforce and set the tone for all safety related issues during and prior to the planning of each project phase. They must provide leadership and show commitment to a safe and healthy environment. Responsibilities shall include reviewing inspection reports, safety meeting reports and addressing health and safety issues on the jobsite.
- b) **Superintendent** must lead, oversee and manage all site work, including safety. The superintendent must ensure that safety procedures are applied in an effective manner and that all employees are conforming to established rules and regulations. Duties include establishing a pre-job assessment prior to the start of the project, ensuring site foremen comply with safety regulations, conducting safety orientations for all new employees, reviewing all incident & corrective action reports, pre-task plans and enforcing disciplinary action when necessary. The superintendent will also work with the site safety representative overseeing regular site inspections, developing a site- specific emergency plan and implementing weekly tool box topics with subcontractors.
- c) **Project Engineer-** Responsibilities include collecting all subcontractor safety programs, material safety data sheets (MSDS) and ensuring all site foreman have access to site plans.
- d) **Site Safety Representative** will act as the designated safety manager and will inspect the jobsite weekly, conducting safety inspections. Responsibilities include providing education and training opportunities to all employees, conducting safety audits, discussing & providing weekly tool box topics, developing an emergency action plan and procedures, reviewing all safety programs and safety data sheets (SDS), scheduling Pre-Task planning meetings & overseeing implementation, issuing violation notices, issuing corrective action reports.

9.2 Project Safety Orientation

Each employee working on the site are required to complete the Employee SafetyOrientation. This must be complete within one week of any employee beginning work on site.

9.3 Jobsite Inspections

a) Site Safety Representative will conduct weekly site inspections, and review all safety documents (pre-task plan, crane plan, etc.).

- b) Contractors shall perform daily safety inspections of their work area and equipment per OSHA, 2007 requirements.
- c) After inspecting a job site/work area, the site safety representative and superintendent will identify and evaluate all potential hazards for: a. Possibility for severe injury. b. Probability of accident occurrence.
- d) This site safety representative will also consider the skill and knowledge level demonstrated by exposed workers.
- e) This site safety representative shall then take the following actions: a. Discuss all hazards with the necessary parties. b. Explain appropriate recommendations and precautions. c. Assist with any necessary training (i.e. provide appropriate Tool BoxTalks), in accordance with the level of hazard. d. Issue citations & corrective actions.
- f) Records shall be maintained for all recommendations, precautions, and training foreach hazard identified.
- g) All incidents, regardless of severity, will be discussed at the next project safetymeeting, with an emphasis on eliminating future occurrences

9.4 Emergency Procedures, Investigation, and Reporting

- Contractors/employees shall report all work related injuries, illnesses, first aid cases, near misses, property damage, and environmental incidents such as a spill or release of hazardous materials, regardless of severity, immediately to the Project Superintendent and Safety Manager.
- The contractor shall investigate all incidents and forward copies of the incident report to the Safety Manager within 4 hours of the incident. An incident report must be provided for: near misses, first aid, recordable injuries, third party property damage or personal injury, and builders risk claims.
- Corrective actions will be implemented and any worker compensation or liability claims shall be reported to project manager.
- Follow-up information on personal injuries (doctor's reports, insurance or worker's compensation reports etc.), shall be forwarded to the Safety Manager within a reasonable time frame.

9.5 Emergency Signals and Procedures

1. **Serious Emergency** - A single long blast from an air horn shall be given by the Project Superintendent in the event of a serious emergency on the site. These includeserious or life threatening injury, severe weather or other impending natural disaster, or other emergencies not

requiring immediate evacuation of the site. Please discontinue working and report to your foreman. Foremen shall report to the Project Superintendent for further instructions. Two quick blasts from an air horn shall signal the all clear.

2. Evacuation - Three or more long blasts from an air horn shall be given by the Project Superintendent in the event that total evacuation of the site is necessary. Immediately discontinue working and evacuate to a safe location (designated by project superintendent). Foremen shall account for all workers in their crew and shall report to the Project Superintendent. The Superintendent shall instruct the foremen according to circumstances to remain at the gathering location or retreat to a safer distance. Two quick blasts from an air horn shall signal the all clear.

9.6 Fire Prevention Program

- 1. There should be a programme committed to minimizing the threat of fire to employees, visitors, and property. It is the responsibility of the contractor to have their own Fire Prevention Program (FPP) and to instruct and train all employees in fire prevention and fire response.
- 2. When Cutting, Welding, and Open Flame Work are performed, the contractor shall at minimum ensure the following:
 - a) All cutting and welding equipment is inspected and operated by competent, trained personnel.
 - b) No cutting or welding shall take place on metal walls, ceilings, or roofs built of combustible sandwich-type panel construction or having combustible covering.
 - c) A fire extinguisher shall be located within 10' of all cutting, welding, or other hot work.
 - d) Proper PPE must be utilized.
- 3. All combustible materials must be properly secured and stored outdoors.
- 4. Smoking is prohibited at the site projects.
- 5. The contractor must establish and maintain a means of proper egress, and all exits must bemarked by a readily visible sign.
- 6. Fire Extinguishers must comply with the following: a. readily available every 3,000sf. b. Require quarterly inspection tag. Any defective device must be removed from service immediately. c. Shall be located & labeled so it can be readily seen and accessible along normal paths of travel. In multi-story buildings, at least one extinguisher must be adjacent toa stairway.

9.7 Hazard Communication Program

1. Hazard Determination

- a. SDS supplied by the contractors and manufacturers shall be utilized in identifyinghazardous materials.
- b. Subcontractors must submit all appropriate MSDS documentation to project manageroffice prior to beginning work on project site.

2. Labeling

- a. All containers on the jobsite shall be properly labeled by the responsible contractor.
- b. All labels shall clearly indicate: 1. Identity 2. Hazard 3. Precautionary Statement 4. Name and address of responsible party

3. Safety Data Sheets (SDS)

- a. SDS for all hazardous chemicals to which employees may be exposed will be kept at the corporate office and the jobsite field office.
- b. SDS will be available for review to all workers and employees.
- c. Notification of new or revised MSDS shall be posted

4. Employee Information

- a. All known hazardous substances present on the site and location of SDS shall be disclosed to the workers in the mandatory Project Safety Orientation.
- b. When workers are required to perform work in areas known to contain hazardous materials, it is the subcontractor's responsibility to identify: 1. Specific chemical hazards. 2. Protection/safety measures the employee is required to take to lessen risks. 3. Potential hazard reduction measures c. The main contractor will work with the subcontractor to the greatest extent feasible to limit exposure to the hazard(s).

5. Training

a. Employers must provide employees with effective information and training on hazardous chemicals in their work area, and whenever a new hazardous chemical is introduced. b.

Employees are required to wear and have appropriate training on PPE associated with eachhazardous chemical being used.

9.8 General Safety

9.8.1 Personal Protective Equipment (PPE)

- All personal protective equipment shall be provided by contractors prior to the start ofjob.
- Personal protective equipment including hard hats, safety glasses, work boots and high visibility shirts must be worn 100% of the time.
- Proper work attire.
- Fall protection is required for all trades when working at heights of 6' or more.
- Protective gloves or clothing shall be worn when required to protect against a hazard.
- A face shield or safety goggles are required when cutting, grinding, welding or power washing.
- Hearing protection is required when working in areas where noise levels exceed 85 decibels, or normal conversation cannot be conducted, or when the area is posted as a noise hazard.
- Dust masks or respirators shall be worn in all dusty environments. Pulmonary function testing, fit tests and written respiratory programs are required for respirator use.
- All personal protective equipment must be inspected daily as per OSHA, 2007 standards.

9.8.2 Moving Equipment

- All operating equipment shall be equipped with rollover guards per OSHA 2007 standards.
- Operating equipment shall be equipped with an audible notification, strobes and/or beacons per manufacturer's requirements.
- A spotter is required whenever a vehicle has a restricted view while operating on site.
- Properly set-up barricades or traffic control zones when operating equipment near public roadways.
 When construction activities are at a peak level, the use of a spotter/traffic controller is permitted to help direct and control traffic.
- Contractor/Sub-contractors is required to conduct daily inspections of all equipment.
- Employees assigned to traffic control duties must wear high visibility clothing per OSHA 2007 standards.

9.8.3 Excavating/Site Utilities

- 1. The competent person must inspect the excavation:
 - a) Daily before work activities commences.
 - b) After a heavy rainfall.
 - c) At depths greater than 4" for oxygen deficiencies or hazardous atmospheres.
 - d) For failures of protective systems, equipment and adjacent structures.

- 2. Miss Dig must be contacted prior to starting any excavating.
- 3. When working in a trench 4 feet or more in depth, proper sloping, shoring, or other cave-in protection methods shall be utilized.
- 4. Ladders shall be provided at least every 25 feet for access to trenches exceeding 4 feet indepth.
- 5. Material and spoil piles shall be kept a minimum of 2 feet away from the edge of a trench.
- 6. All open holes, trenches, and excavations shall be barricaded and clearly marked to alertthe public and other workers in the area.
- 7. Excavations and trenches may be confined spaces where air monitoring could be required.
- 8. All vehicles hauling soil from site must pull into site and turn around.

9.8.4 Crane & Rigging Safety

- Must be included in a Pre-Task plan.
- All operators shall be certified and cards submitted to project supervision before start ofwork.
- All cranes are to be inspected on a daily basis.
- All cranes must have proof of annual inspection.
- Outriggers must be manufactured and be fully extended and on stable ground.
- The swing radius of all cranes must be properly barricaded.
- Contractor must submit a copy of the crane plan (operation, swing radius, etc.) tosuperintendent prior to the start of the project.

9.8.5 Fall Protection

- 1. Fall protection systems are required when exposed to heights of 6' or more. Systems include:
 - a) Guardrails
 - b) Safety nets
 - Personal fall arrest systems. All systems must be inspected, constructed andinstalled per OSHA, 2007 requirements.
- 2. When conducting roofing work, contractors are required to submit a pre-task analysis.
- 3. All holes/ floor openings greater than 2" in depth or diameter are required to be properly barricaded/covered or secured, and clearly marked with high visibility paint as a "hole". All hole/openings

that are barricaded and covered shall be securely/mechanically fixed in place.

- 4. Contractors are required to maintain all fall protection devices.
- 5. If an employer can demonstrate conventional fall protection methods are infeasible or present a greater hazard, a fall protection plan may be implemented. The fall protection plan must comply with OSHA standards and include the following:
 - a) Site specific requirements/unique circumstances.
 - b) Prepared by a qualified person.
 - c) Supervised by a competent person.
 - d) Explain why conventional methods are infeasible.
 - e) Discuss the safety measures that will be taken to reduce or eliminate the fall hazard of the workers.
 - f) Describe all controlled access zones.
 - g) Require training for all employees.

9.8.6 Electrical

- Cords and tools must be inspected on a daily basis. If the insulation or casing of the cord is damaged, or the ground prong is missing, the cord will be cut by project supervision.
- All cords must be 3 prong heavy duty cords and be protected from indoor/ outdoor traffic.
- Portable generators must be provided with ground fault circuit interrupters.
- Temporary lighting must be protected with safety guards.
- Stairwells, corridors & work areas shall be properly illuminated with either temporaryor permanent lighting.

9.8.7 Scaffolding Safety

- All scaffolds must be erected and inspected daily by a competent person
- Each work level of the scaffold system shall be full planked and overhang the end supports by a minimum of 6 inches and a maximum of 12 inches. Planking which does not meet this requirement must be cleated.
- The scaffold system must have a ladder provided for access. Climbing the bracing is not acceptable unless the system has a built-in ladder for that purpose.
- Scaffolding height must never exceed 4 times their minimum base dimension. If this is exceeded, the scaffold must be tied into the structure.
- All working and walking levels must be fully planked and not overloaded.

- Planks must be scaffold grade lumber. Cracks shall not penetrate more than 12 inches.
- Riding of wheeled scaffolding is prohibited.
- The footing or anchorage for scaffolds must be sound, rigid and capable of carryingthe maximum intended load without settling or displacement.

9.8.8 Ladder Safety

- Only type 1A ladders with a heavy-duty rating are required.
- No painted or aluminum ladders are allowed on site.
- All ladders must extend a minimum of three (3) feet above the landing and be secured. If the ladder cannot be secured, it must be held at the bottom by another worker.
- Keep ladder bases clear from debris, hoses, wire, materials, etc.
- Use the "four and one" rule when positioning a ladder one foot of base for everyfour feet of height.
- Step ladders must be fully extended and locked into place. Placement shall be onstable surfaces.
- Workers shall not straddle or stand on the top two rungs of a ladder, and shall workfacing the ladder.

9.8.9 Aerial Work Platforms

- Must be inspected daily.
- Operated by trained and authorized personnel. Employees must have operator's certification readily available
- All employees must wear a body harness and be tied off inside the basket whenelevated at all times.
- Lifts should only be operated in accordance with the manufacturer's manual.

9.8.10 Housekeeping

- Contractor/Subcontractors must properly dispose of all waste materials on a dailybasis.
- Contractor/Subcontractors must properly store and secure all work material and equipment.
- Site clean-up is required on a daily basis.
- Stairways and passageways must be kept clear of debris.

9.9 Site Specific Safety Requirements

Site Work

- Employees must wear proper PPE.
- Contactor/Subcontractors must maintain a clear path through the jobsite.
- Storing of materials and goods will be located in a way as to prevent site congestion.

Concrete

- All exposed rebar will be capped, or covered to protect against impalement or injury.
- Employees operating equipment such as vibrators pump nozzles, and/ or buggies will wear appropriate clothing and PPE, such as boots, eye protection and hearing protection. Long sleeve shirts will be worn to protect against the exposure of concrete.
- Concrete contractor must appropriately barricade working area during concrete forming and after concrete has been poured.
- Material used for formwork must be removed and properly disposed of. Subcontractorwill remove all debris and conduct a clean-up of the work area daily.

Steel Erection

- Subcontractor must conduct a pre-task analysis with the superintendent before alloverhead hoisting activities take place.
- The area of erection must be securely barricaded. If necessary, a controlled accesszone may be permitted.
- All steel erectors must wear appropriate PPE, including fall protection at heightsgreater than 6 feet and a face mask when welding.
- Contractor must provide the following when using a crane: Crane operatorcertification. Crane plan, including staging area, swing radius and required barricades.

Block Masonry

- Mason contractor must provide, if applicable, wall bracing plan prior to start of work
- Competent person (foreman) must conduct daily inspections of scaffold equipment
- Employees working within restricted fall zone must be trained and certified to work inrestricted fall zone area.

- Masonry block walls at heights of 8 feet or greater, not tied into the structure, must beadequately braced.
- Restricted fall zone areas must be established prior to the construction of the wall, and will be restricted to employees who are actively engaged in constructing the wall.

Truss & Deck Framing

- All walkways and working surfaces must be clear of debris to prevent trippinghazards.
- Employees are required to wear appropriate PPE, including fall protection at heightsgreater than
 6 feet.
- Contractors must establish a controlled access zone to prevent other contractors fromentering work area.
- Trusses/Joists must be adequately braced to prevent falling or tipping.
- Contractor must barricade crane swing radius when loading and setting trusses inplace.

Window Installation

- All window openings require a guardrail if the window sill measures a height below 39" and a width greater than 18".
- When installing windows on the upper floors, the area below (ground level) must be properly barricaded.
- Employees are required to wear a personal fall arrest system when installing windows on the upper floors.
- If using any lifting devices (rough terrain, aerial), employees must: A. Wear a personal fall arrest system B. Have operator's license to use equipment. C. Inspect equipment daily.

Roofing

- Employees are required to use a method of fall protection. Slide guards are no longerpermissible.
- Employees are restricted from throwing material from roof. Contractor must set up adrop zone, which requires a barricade and a spotter.
- Employees working on roofs must wear appropriate footwear that provides goodtraction.
- Working surfaces must be free of tripping hazards (tools, cords, etc.) and must beclean to prevent material from falling below.

- A written pre-task analysis is required and must be submitted to superintendent prior start of work.
- Employees must have proper and safe access to roofing surface. The use of anytemporary ladder must be constructed and properly secured to prevent movement.
- Employees should refrain from working on the roof during inclement weatherconditions.

Drywall

- Daily cleanup is required.
- A clear path must be maintained.
- Proper storing methods are required.
- Employees must wear proper PPE at all times.

Paint Primer

- Contractor must submit all required MSDS.
- Employees must wear appropriate work attire and PPE, including face masks/respirators when spraying paint. A written respiratory program is required as well.
- Employees must use ladders/ lifts to reach difficult areas.
- While painting/ priming, contractor must make sure work area is properly ventilated.
- Contractor is permitted to set up a restricted work zone when spraying paint.
- Properly store all paint material, and dispose of empty paint buckets daily.

9.10 Sexual Harassment

Discrimination against any employee or applicant on the basis of the person's sex is strictly prohibited. Sexual harassment is a violation of state law and will not be tolerated. Any unwelcome sexual advances, requests for sexual favors and other verbal or physical conduct of a sexual nature constitute sexual harassment when:

- a) It is stated or implied that submission to such conduct is a term or condition of a person's employment; or
- b) Submission to or the rejection of such conduct by a person is used as a basis for any employment decision affecting such person, such as, but not limited to, pay increases, work assignments, promotions, performance evaluation, etc. or;
- c) Such conduct has either the purpose or effect of interfering with a person's work performance or

creates an intimidating, hostile or offensive work environment.

Any employee or applicant who feels that he or she has been subjected to sexual harassment should report any incidents of sexual harassment to his or her supervisor, or any member of management, without fear of reprisal. The totality of the circumstances, the nature of the alleged harassment and the context in which the alleged incidents occurred should be investigated in determining whether alleged conduct constitutes sexual harassment. Every reasonable effort will be made to maintain confidentiality. Sexual harassment case shall be reported to police for further investigation and prosecution.

CHAPTER TEN: CONCLUSION AND RECOMMENDATIONS

10.1 Conclusion

The aim of the EIA Study Report is to provide information to inform decision-making that will contribute to sustainable development. This Report is submitted to the National Environment Management Authority (NEMA), to provide information and an independent assessment, thus enabling NEMA to make an informed decision regarding whether or not to grant an EIA license for the proposed project to proceed, in accordance with the Environmental Management and Coordination Act (EMCA), 1999.

If granted, this EIA Study Report will also assist NEMA to define under what conditions the development should go ahead. In considering the development of infrastructure projects such as flats, it is inevitable that there will be some negative environmental impacts. In addition, following a rigorous stakeholder engagement exercise, there is support for the Project.

Through the EIA process, which included various stakeholder input, consultants have identified and assessed a number of potential impacts relating to the development. These impacts are well described in chapter 6 of this report.

During project implementation and occupation, sustainable environmental management will be ensured through avoiding inappropriate use of resources, conserving nature and guaranteeing a respectful and fair treatment of all people working on the project, general public at the vicinity and inhabitants of the project. This is possible through implementation of the recommended Environmental Management and Monitoring Plans. The proponent should ensure the following measures are implemented in addition to the EMP.

- The proponent should follow the guidelines as set by the relevant departments to safeguard and envisage environmental management principles during construction and operation/occupation phases of the proposed project.
- It is important that warning/ informative sign boards be erected at the site. The signs should be positioned in a way to be easily viewed by the public.
- The contractor should have workmen's compensation cover and is required to comply with workmen's compensation Act as well as other relevant, regulations and Agreements.
- Register the site as a work place by Directorate of Safety and Health Services.
- The contractor should provide adequate security during the construction period.
- The proponent should consider installing solar panels.

10.2 Recommendations

The environmental consultants are confident that every effort will be made by project proponent to accommodate the mitigation measures recommended during the EIA process to the extent that is practically possible, without compromising the economic viability of the project. The implementation of the mitigation measures detailed in Chapters 6 and listed in the EMP in Chapter 8, will provide a basis for ensuring that the potential positive and negative impacts associated with the establishment of the development are enhanced and mitigated to a level which is deemed adequate for the development to proceed.

REFERENCES

- 1. Government of the Republic of Kenya, Environmental (Impact Assessment and Audit) Regulations 2003 (Nairobi: Kenya Parliament, 2012)
- 2. Kenya Vision 2030: The Popular Version (Nairobi, 2007)
- 3. Public Health Act, Act No 12 of 2012. (Nairobi: Kenya Parliament, 2012) www.kenyalaw.org
- 4. The Constitution of Kenya (Nairobi: Kenya Parliament, 2010)
- 5. The Occupational Safety and Health Act, 2007. (Nairobi: Kenya Parliament, 2007)
- 6. The Water Act, Act No. 43 of 2016 (Nairobi: Kenya Parliament, 2016
- 7. International Finance Corporation, Performance Standard 1: Assessment and Management of Environmental and Social Risks (Washington, DC, 2012)
- 8. Handbook on Stakeholder Engagement, United Nations Environment Programme, 2005, LIV
- 9. Environmental Management and Coordination Act: Chapter 387 Governmentprinter Nairobi.
- 10. County Government Act, (2012) Nairobi, Government printer.
- 11. Environmental Impact Assessment and Audit Regulations: (2003) Nairobi, Government printer and 2019 amendments.
- 12. Environmental Management and Coordination (Water Quality) Regulations:(2006) Nairobi, Government printer.
- 13. Environmental Management and Coordination (Waste Management) Regulations: (2006) Nairobi, Government printer,
- 14. Environmental Management and Coordination (Noise and Excessive Vibrations Pollution) Regulations: (2009) Government printer, Nairobi.
- 15. Occupational Safety and Health Act, (2007) Government Printer, Nairobi.
- 16. Physical and Land Use Planning Act; Chapter 286 Government printer, Nairobi.
- 17. Public Health Act; Chapter 242. (1986) Government printer, Nairobi.
- 18. Water Act, 2016. Government printer, Nairobi.
- 19. National Housing Policy 2016 Government Printer, Nairobi
- 20. The Constitution of Kenya 2010 Government Printer, Nairobi
- 21. Environmental Management and Coordination Act, Legal Notice No. 31&32
- 22. National Construction Authority Act, 2011, Government printer Nairobi
- 23. Energy Act, Cap 314, Government printer Nairobi
- 24. Land Registration Act of 2012 Government Printer, Nairobi
- 25. The National Land Commission Act 2012 Government Printer, Nairobi
- 26. Nairobi County Integrated Development Plan, 2018

LIST OF ANNEXES: SEE SEPARATE VOLUME II

ANNEX 1: PROJECT PROPONENT IDENTIFICATION DOCUMENTANNEX 2: KRA

PIN CERTIFICATE

ANNEX 3: LAND OWNERSHIP DOCUMENTS

ANNEX 4: EIA EXPERTS PRACTICING LICENSES 2023

ANNEX 5: EIA STUDY TEAM

ANNEX 6: EIA TERMS OF REFERENCE APPROVAL LETTERANNEX 7:

PROPOSED SITE MAP

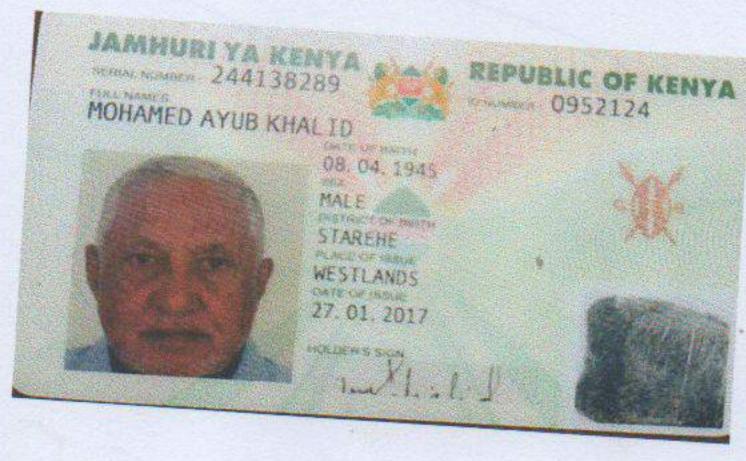
ANNEX 8: PROPOSED SITE PHOTOGRAPHS

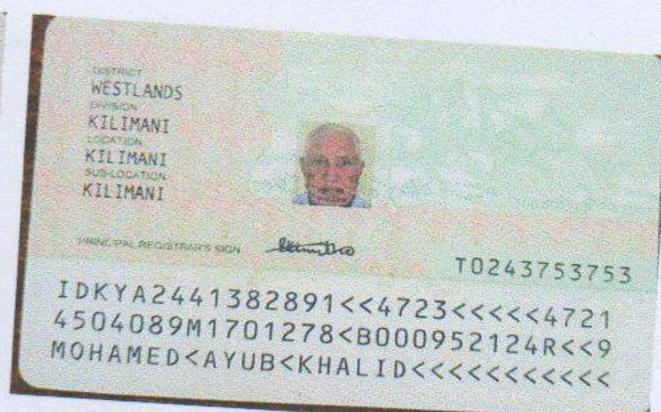
ANNEX 9: PROPOSED PROJECT ARCHITECTURAL DRAWINGS/SITE LAYOUT

PLAN/PERSPECTIVE/RENDERS

ANNEX 10: BILLS OF QUANTITIES-SUMMARY PAGEANNEX 11: PUBLIC CONSULTATION RECORDS

- PUBLIC NOTICES
- LEAD AGENCIES CORRESPONDENCE LETTERS AND THEIR RESPONSES
- MINUTES OF THE PUBLIC MEETINGS, ATTENDANCE REGISTERAND PHOTOGRAPHS
- QUESTIONAIRES





INCOME TAX DEPARTMENT

PENSONAL IDENTIFICATION NUMBER CERTIFICATE



PAL

A000124503S

Marie.

MOHAMED AYUB KHALID

ING OF BIRTH: PARTH:

PH APPIL 19K5 NAMBORI

17 M NOV: 1992.

2724209 TEL:254

27242

NEED TOMORTHO MAINTENANT





REPUBLIC OF KENYA

THE LAND REGISTRATION ACT

(No. 3 of 2012, Section 108) THE LAND ACT

(No. 6 of 2012)

THE REGISTRATION OF TITLES ACT (Cap. 281) (Repealed)
THE GOVERNMENT LAND ACT (Cap. 280) (Repealed)
THE LANDS TITLES ACT (Cap. 282) (Repealed)

CERTIFICATE OF TITLE

Title No. 18. 168243
Term: 50 Years: From: 1-8-2012
Annual Rent Kenya Shillings: 35,340/= (Revisable)
I hereby certify that THE ISLAMIC FOUNDATION NAIROBL REGISTERED TRUSTEES
of P.O. Box 30611-00100 NAIROBI in the Republic of Kenya, pursuant to section 108 of the Land Registration Act is/are now registered proprietor(s) as lessee(s) from the Government of the Republic of Kenya for the term
of
ALL that piece of land situate in the Municipality in the Nairobi District
containing by measurement Nought. Decimal. Three. Two. Seven. Five
hectares/acres/tess/tond/reserverer(0.3275)Ha/Ac) or thereabouts and being land Reference
Number1870/111/233. (original Number) as delineated on Land Survey Plan
Number 359194 annexed hereto. SUBJECT however to the revisable annual rent
of shillings 38,340/= and 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 this4th day of September
Two Thousand andFifteen Registrar of Titles

B. F. Atiens 209

MEMORANDUM

- 1. The Land Registration Act, No3 of 2012
- 2. The Land Act No. 6 of 2012
- 3. The Special conditions contained in Lease No. . 47103962233....
- 4. The Government Land Act (Cap. 280) (Repealed)
- 5. The Registration of Titles Act (Cap. 28) (Repealed)
- 6. The Land Titles Act (Cap. 282) (Repealed)

REGISTRATION OF TITLE ACT
REGISTRATION OF TITLE ACT
PRESENTED 4th September 2018

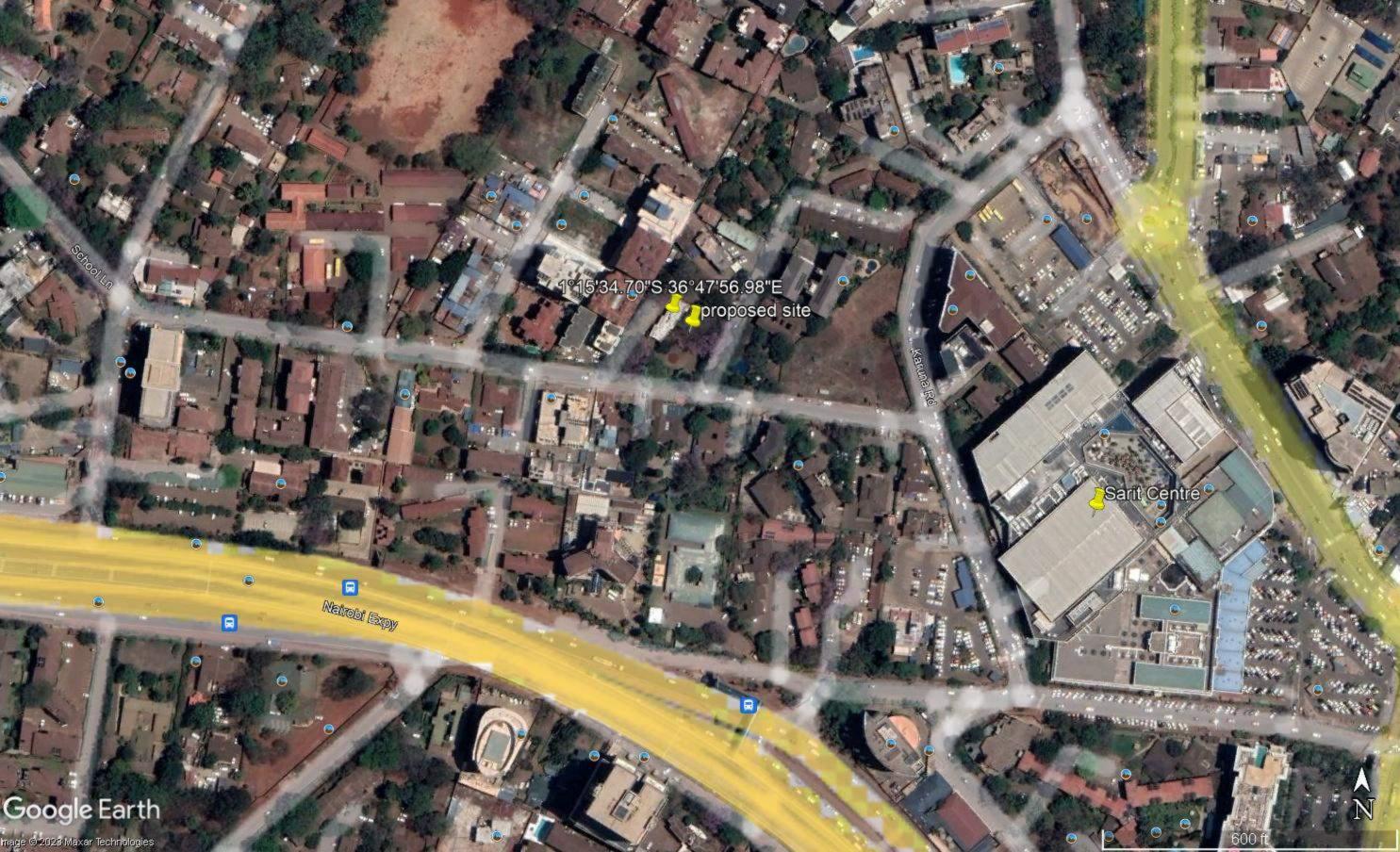
Registrar of Train

Registrar of Train

8. F. Attend 203

CHAPTER TEN: ESIA TEAM

	Name of the Expert	TEAM COMPOSITION,				
		POSITION	QUALIFICATION	PROFESSIONAL BODY		
1	Thomas Ngugi Kimani	Lead Expert	EHS consultant	EIK KOHSA		
2	Alvin Wandera	Lead Expert	Environmental scientist	EIK		
3	Chris Kariuki Kimani	Lead Expert	Environmental Scientist	EIK		
4	Jane Wanjiru	Sociologist	Sociologist			
NC	N-KEY EXPERTS					
5	Tony Odongo	Physical planner	Physical planning			



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/18428

Application Reference No:

NEMA/EIA/EL/24161

M/S THOMAS NGUGI KIMANI

(individual or firm) of address P.O. Box 210 - 00618 NAIROBI

is licensed to practice in the

capacity of a (Lead Expert/Associate Expert/Firm of Experts) Lead Expert

General

registration number 6679

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

Issued Date: 1/12/2023

Expiry Date: 12/31/2023

Signature.....

(Seal) Director General

The National Environment Management Authority

P.T.O.



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/18592

Application Reference No:

NEMA/ELA/EL/24448

M/S Chris Kariuki Kimani

(individual or firm) of address P.O. Box 3718 - 00200 NAIROBI

is licensed to practice in the

capacity of a (Lead Expert/Associate Expert/Firm of Experts) Lead Expert

General

registration number 4019

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

Issued Date: 1/13/2023

Expiry Date: 12/31/2023

Signature.....

(Seal) Director General

The National Environment Management Authority





NATIONAL ENVIRONMENT MANAGEMENT AUTHORITY

Telcom Wireless: 020-2183718, 020-2101370

Mobile Line: 0724 253 398, 0723 363 010, 0735 013 046

Incident Line: 0786 101 100, 0741 101 100

P.O. Box 67839 - 00200 Popo Road, Nairobi, Kenya Email: dgnema@nema.go.ke Website: www.nema.go.ke

NEMA/TOR/5/2/548

2nd March, 2023

Director,

The Islamic Foundation Nairobi Registered Trustees
P.O Box 30611-00100
NAIROBI.

RE: ACKNOWLEDGEMENT AND APPROVAL OF TERMS OF REFERENCE (TOR) FOR ENVIROMENTAL IMPACT ASSESSMENT FOR THE PROPOSED APARTMENTS DEVELOPMENT ON PLOT L.R. NO. 1870/111/233 IN WESTLANDS, NAIROBI CITY COUNTY.

We acknowledge the receipt of TOR for the above subject.

Pursuant to the Environmental Management and Coordination Act, 1999 the second schedule and the Environmental (Impact Assessment and Audit) Regulations 31 and 35, your terms of reference for the Environmental Impact Assessment (EIA) for the proposed APARTMENTS DEVELOPMENT ON PLOT L.R. NO. 1870/111/233 IN WESTLANDS, NAIROBI CITY COUNTY has been approved.

You shall submit ten (10) copies, a soft copy summarised version of the **ESMP** in **WORD** form and one electronic copy of your report prepared by a registered expert to the Authority.

REAGAN AWINO

attent

FOR: DIRECTOR GENERAL







abc place
waiyaki way
westlands
p. o. box 25269-00100
nairobi, kenya
www.blinkstudio.co.ke









N>		

KEYPLAN

NO

SCHOOL LANE TOWERS

LEGEND

Basement 02

- 70 Car Parking Spaces
- -5 Motorcycle parking spaces
- Vehicular Ramp 10% slope
- Storage Spaces
- Plant &/ Equipment Rooms
- Residential Tower Lifts + Stairwell
- Podium Lift & Stairwell
- Services

Date Description

Project
PROPOSED DEVELOPMENT

SCHOOL LANE, WESTLANDS

Client

oject No. :

ale : NTS

awn By : SM JA

viewed By : DN A

Drawing Title

Basement-02

Drawing Reference No.
BSL-00-00-00





abc place
waiyaki way
westlands
p. o. box 25269-00100
nairobi, kenya
www.blinkstudio.co.ke









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KEYPLAN

NO.

SCHOOL LANE TOWERS

LEGEND

Basement 01

- 67 Car Parking Spaces
- -5 Motorcycle parking spaces
- Vehicular Ramp 10% slope
- Storage Spaces
- Plant &/ Equipment Rooms
- Residential Tower Lifts + Stairwell
- Podium Lift & Stairwell
- Services

Date Description

PROPOSED DEVELOPMENT

SCHOOL LANE, WESTLANDS

Client

roject No. :

cale : NTS

rawn By : SM

CAD File :

Drawing Title

Basement-01

Drawing Reference No.
BSL-00-00-00





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KEYPLAN

NO

SCHOOL LANE TOWERS

LEGEND

Ground Floor Level

- 53 Car Parking Spaces
- -2 Bay Dropoff Zone
- Vehicular Ramp 10% slope
- Podium & Tower Lobbies
- Plant &/ Equipment Rooms
- Residential Tower Lifts + Stairwell
- Borehole , Gate and Sentry
- Pedestrian Access Entrance
- Vehicular Access Entrance & Exit
- -School Lane Frontage Plaza
- Business Center Access Lobby
- Landscaping

Date	Description	
Project		

PROPOSED DEVELOPMENT
SCHOOL LANE, WESTLANDS

Client

roject No. :

cale : NTS

rawn By : SM JM

eviewed By : DN AC

Drawing Title

Ground Floor

Drawing Reference No.
BSL-00-00-00





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KEYPLAN

NO

SCHOOL LANE TOWERS

LEGEND

<u>First Floor Level</u>

- 43 Car Parking Spaces
- Vehicular Ramp 10% slope
- Storage/Service Spaces
- Commercial Offices
- Residential Tower Lifts + Stairwell
- Podium Lift & Stairwell
- Services

Date Description
Project
PROPOSED DEVELOPMENT

Client

Project No. :

Scale : NTS

Prawn By : SM JM

Reviewed By : DN AC

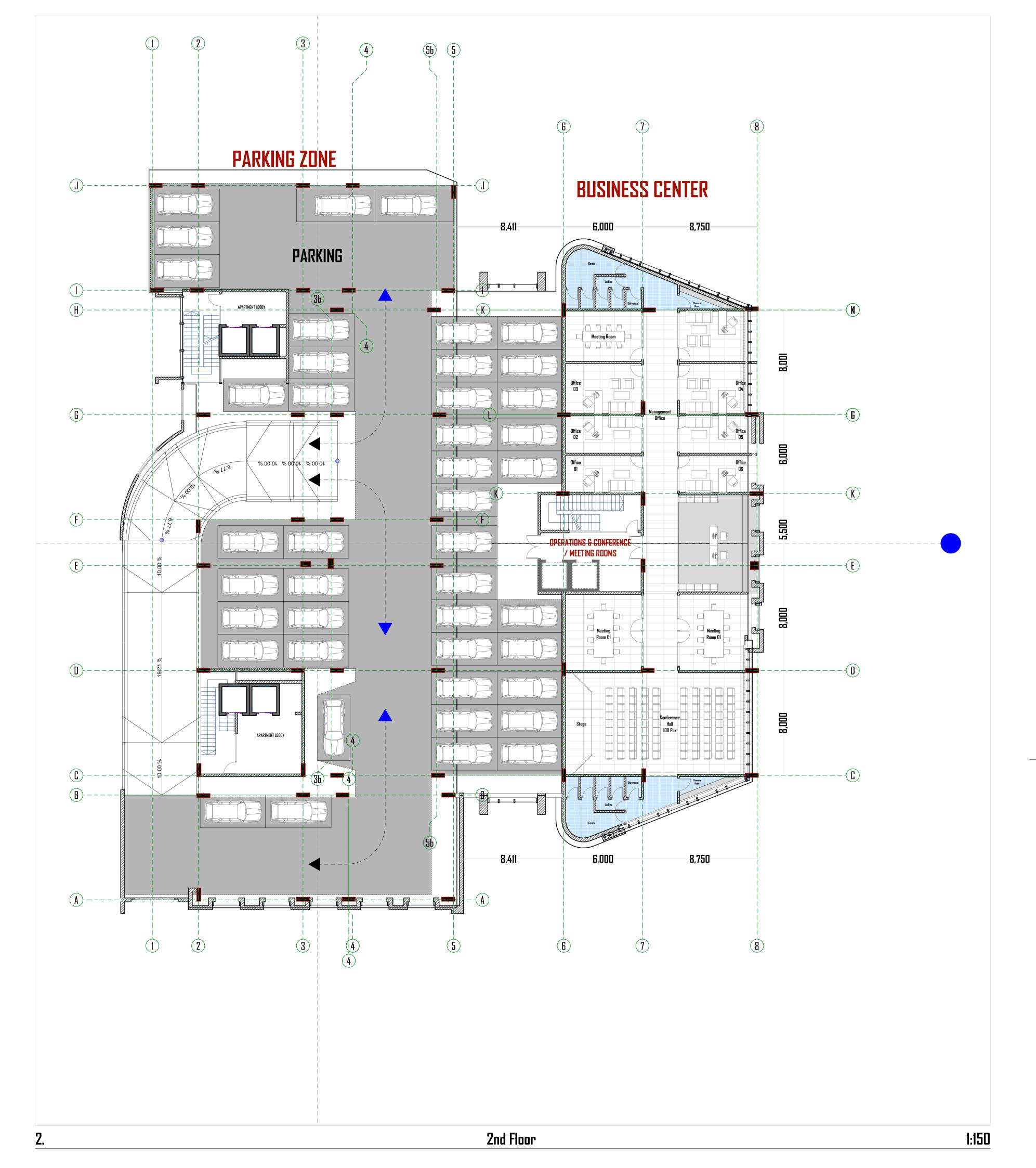
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SCHOOL LANE, WESTLANDS

Drawing Title

1st Floor

Drawing Reference No. BSL-00-00-00





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KEYPLAN

NO

SCHOOL LANE TOWERS

LEGEND

Second Floor Level

- 43 Car Parking Spaces
- Vehicular Ramp 10% slope
- Storage/Service Spaces
- Commercial Offices
- Residential Tower Lifts + Stairwell
- Podium Lift & Stairwell
- Services

Date Description

Project
PROPOSED DEVELOPMENT

SCHOOL LANE, WESTLANDS

Client

roject No. :

cale : NTS

rawn By : SM

Reviewed By : DN .

Drawing Title

2nd Floor

Drawing Reference No.
BSL-00-00-00





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KEYPLAN

NO

SCHOOL LANE TOWERS

LEGEND

Third Floor Level

- 43 Car Parking Spaces
- Vehicular Ramp 10% slope
- Storage/Service Spaces
- Commercial Offices
- Residential Tower Lifts + Stairwell
- Podium Lift & Stairwell
- Services

Date Description

Project

PROPOSED DEVELOPMENT

SCHOOL LANE, WESTLANDS

Client

Project No. :

Cale : NTS

Drawn By : SM JM

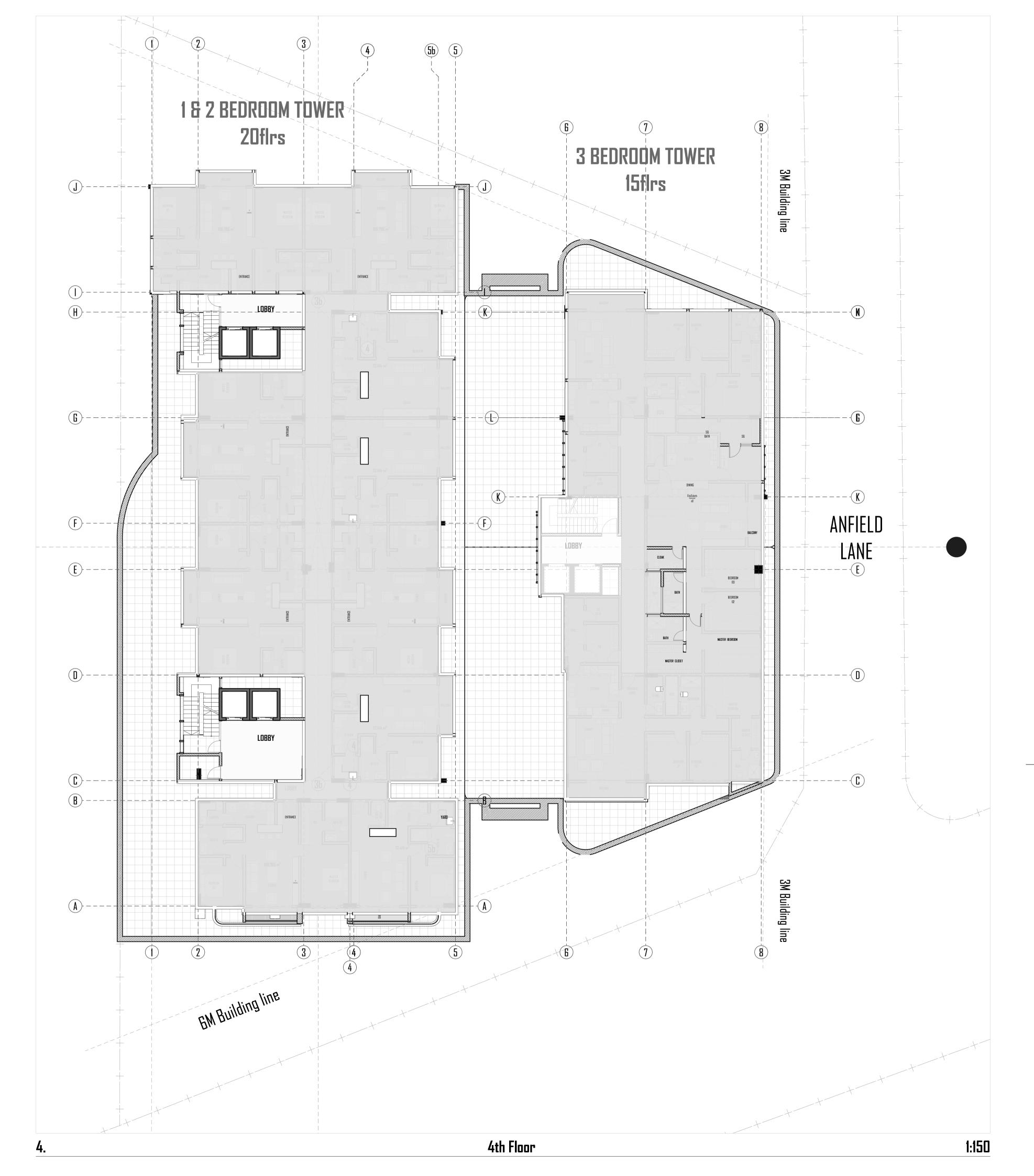
Reviewed By : DN AC

CAD File :

Drawing Title

3rd Floor

Drawing Reference No. BSL-00-00-00





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KEYPLAN

NO

SCHOOL LANE TOWERS

LEGEND

4th Floor Level

- Electrical Services
- Mechanical Services
- Storage/Service Spaces
- Landscaped Podium roof
- Residential Tower Lifts + Stairwell
- Podium Lift & Stairwell
- other Services

Date Description

PROPOSED DEVELOPMENT

SCHOOL LANE, WESTLANDS

Client

ject No. :

ale : NTS

iwn By : SM J/
viewed By : DN A

eviewed By : DN AC AD File :

Drawing Title

4th Floor

Drawing Reference No. BSL-00-00-00





abc place
waiyaki way
westlands
p. o. box 25269-00100
nairobi, kenya
www.blinkstudio.co.ke









KEYPLAN

NO

ate Description

Project

PROPOSED DEVELOPMENT

SCHOOL LANE, WESTLANDS

Client

lect No. :

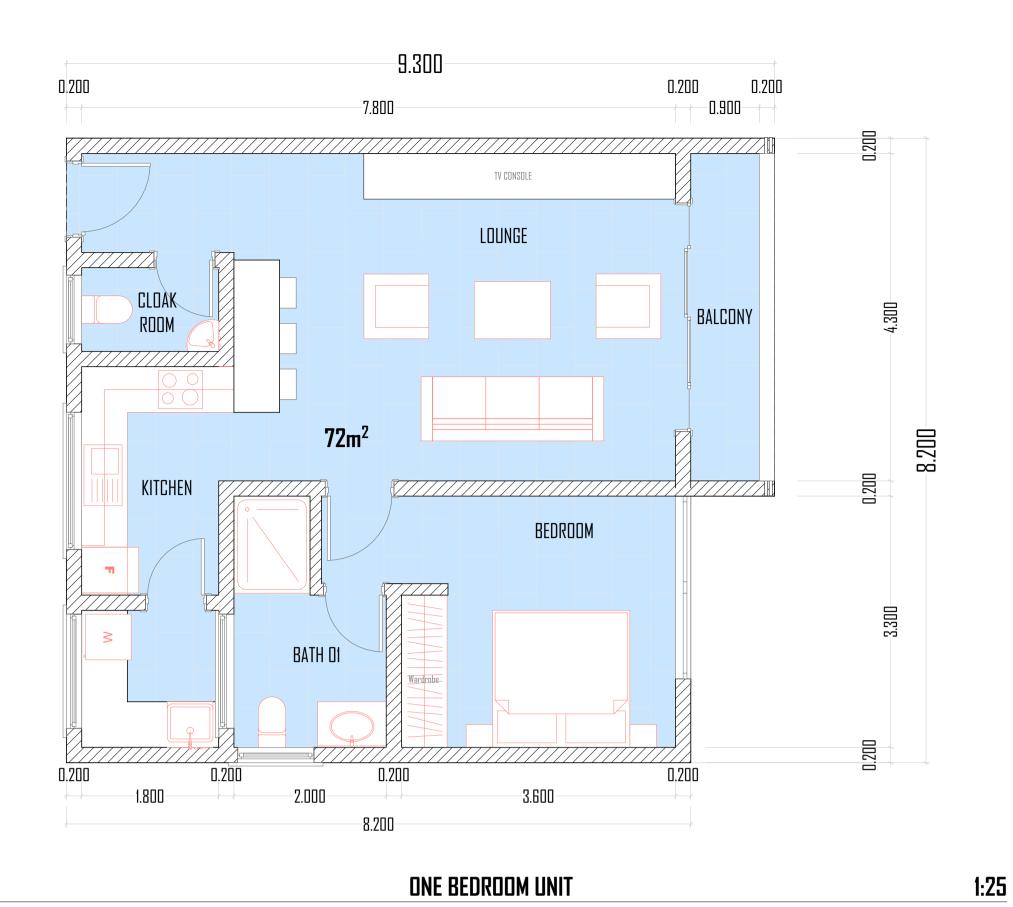
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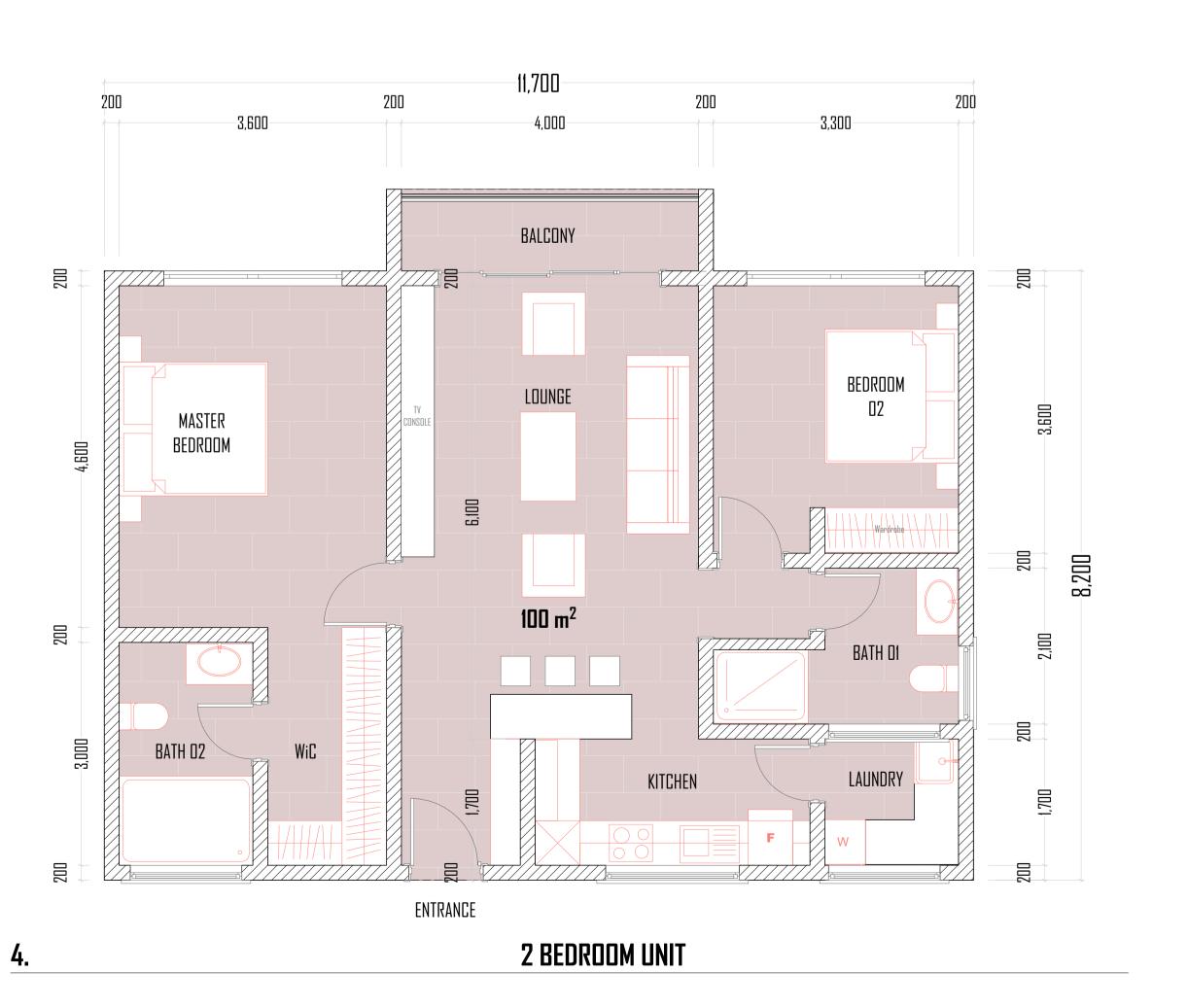
Drawing Title

5th Floor (Typical Floor Layout)

Drawing Reference No. BSL-00-00-00









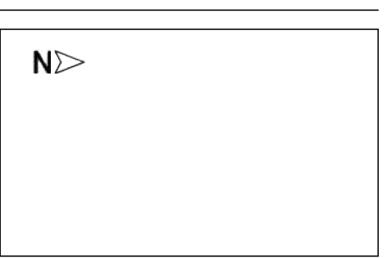
abc place
waiyaki way
westlands
p. o. box 25269-00100
nairobi, kenya
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KEYPLAN

NOTES:

Date Description

Project

PROPOSED DEVELOPMENT

SCHOOL LANE, WESTLANDS

Client

Project No. :

Scale : NTS

Drawn By : SM JM

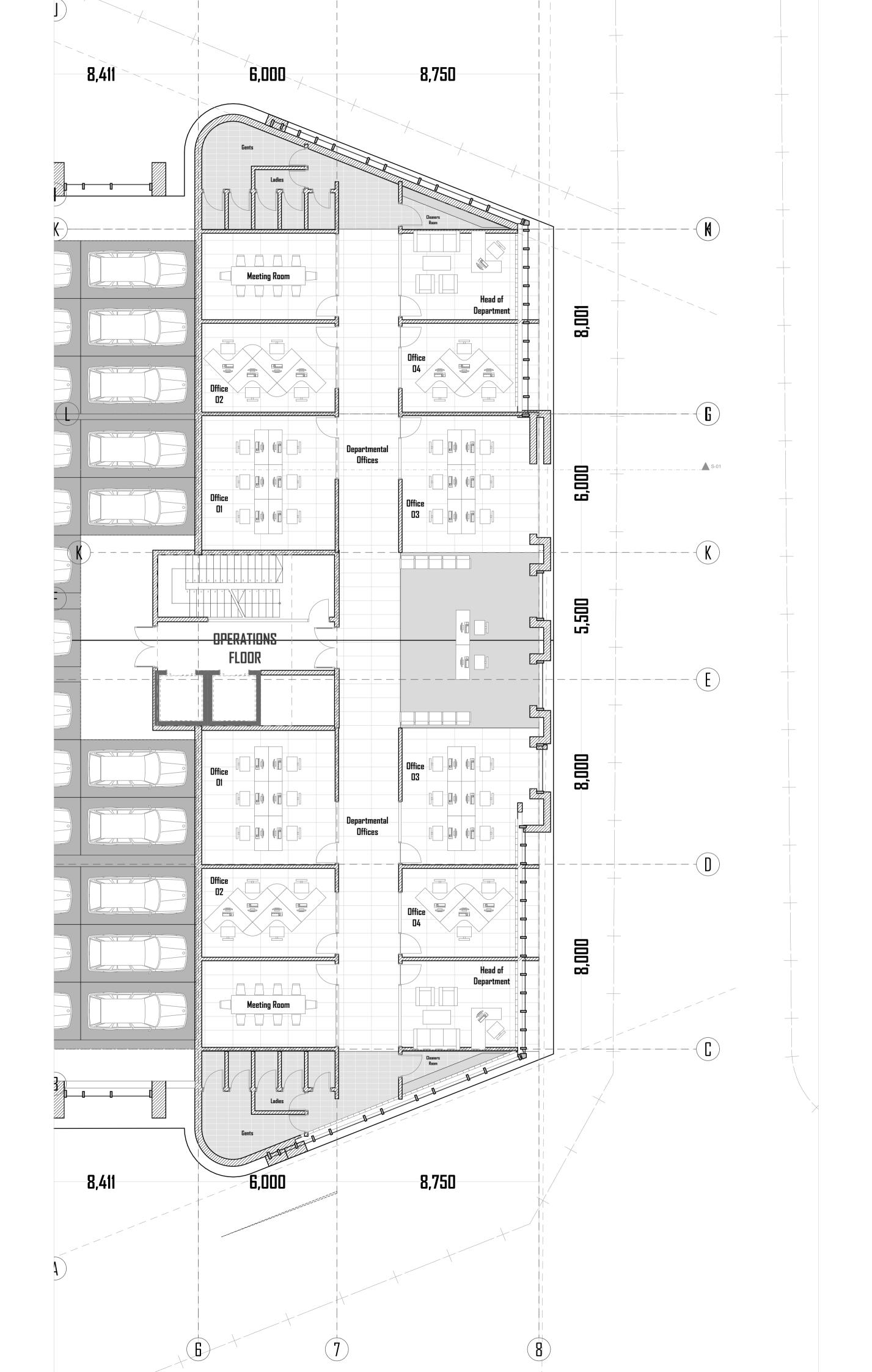
Reviewed By : DN AC

CAD File :

Drawing Title

4th Floor

Drawing Reference No. BSL-00-00-00





abc place
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westlands
p. o. box 25269-00100
nairobi, kenya
www.blinkstudio.co.ke









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KEYPLAN

NO

SCHOOL LANE TOWERS

LEGEND

First Floor Level- Business Center

- Entrance Lobby & Reception
- Departmental Offices
- Storage/Service Spaces
- Wet Areas
- Office Circulation
- Designated Parking area
- Podium Lift & Stairwell

Date Description

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PROPOSED DEVELOPMENT
SCHOOL LANE, WESTLANDS

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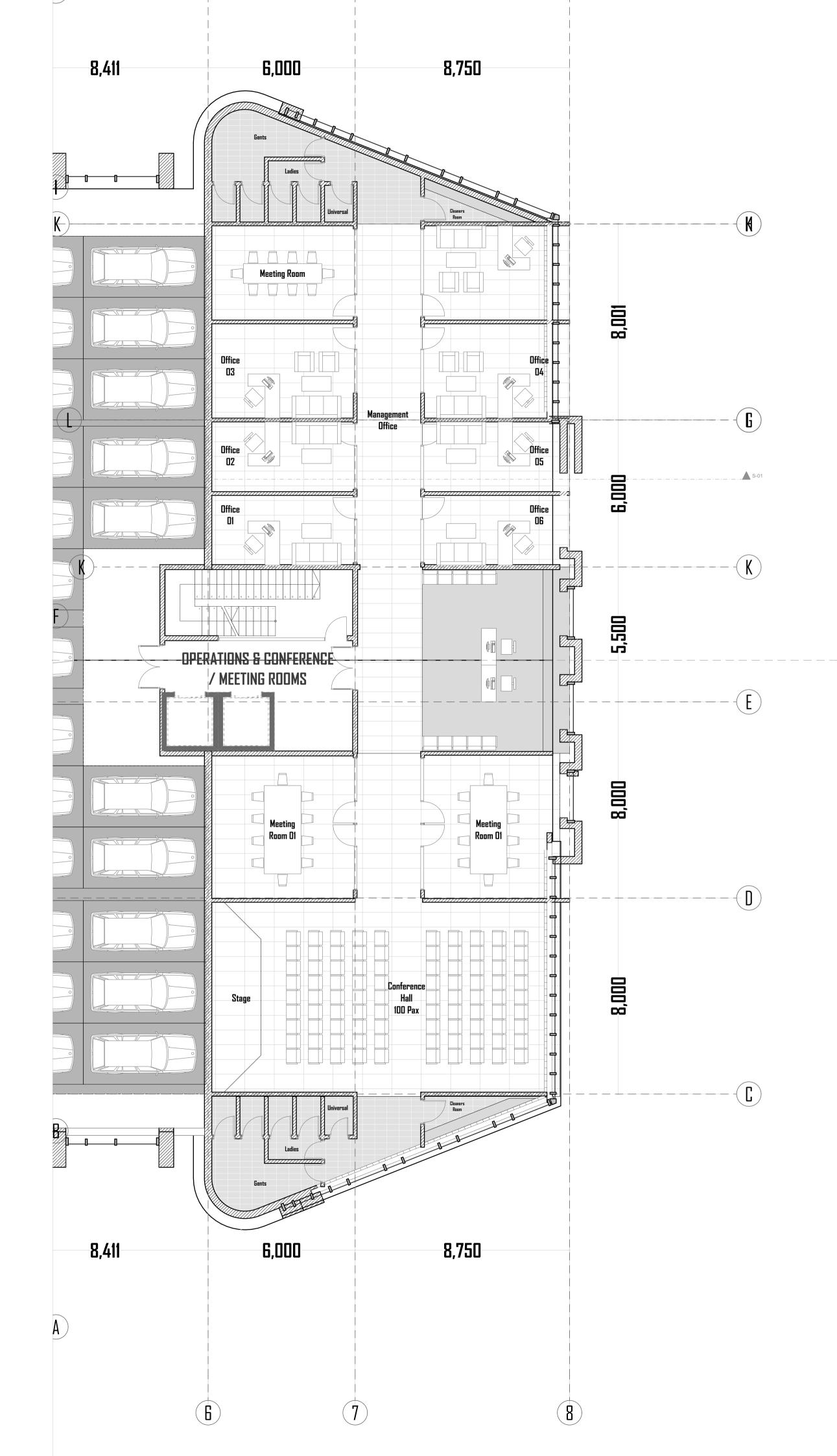
ect No. : le : NTS

rawn By : SM JM eviewed By : DN AC

Drawing Title

1st Floor

Drawing Reference No. BSL-00-00-00





abc place
waiyaki way
westlands
p. o. box 25269-00100
nairobi, kenya
www.blinkstudio.co.ke









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KEYPLAN

NO

SCHOOL LANE TOWERS

LEGEND

Second Floor Level-Business Center

- Entrance Lobby & Reception
- Operations Offices
- Conference & Meeting Rooms
- Storage/Service Spaces
- Wet Areas
- Office Circulation
- Designated Parking area
- Podium Lift & Stairwell

Date	Description
Dale	Description

Project

PROPOSED DEVELOPMENT
SCHOOL LANE, WESTLANDS

Client

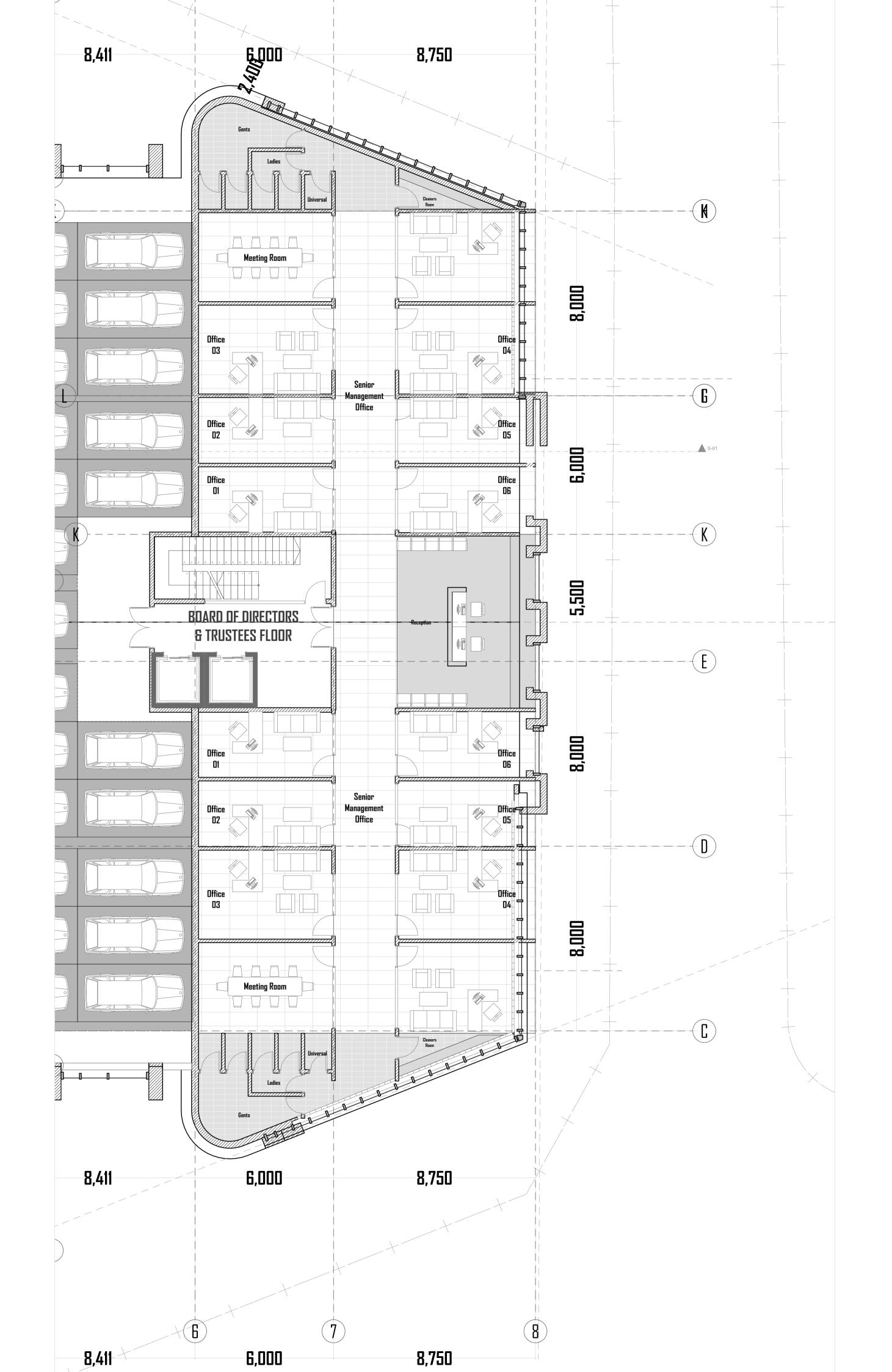
ject No. : ale : NTS awn By : SM J

Reviewed By : DN AC

Drawing Title

2nd Floor

Drawing Reference No.
BSL-00-00-00





abc place
waiyaki way
westlands
p. o. box 25269-00100
nairobi, kenya
www.blinkstudio.co.ke









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KEYPLAN

NO.

SCHOOL LANE TOWERS

LEGEND

Third Floor Level- Business Center

- Entrance Lobby & Reception
- Board of Directors Offices
- Trustee Offices
- Meeting Rooms
- Storage/Service Spaces
- Wet Areas
- Office Circulation
- Designated Parking area
- Podium Lift & Stairwell

Date Description

Project

PROPOSED DEVELOPMENT
SCHOOL LANE, WESTLANDS

Client

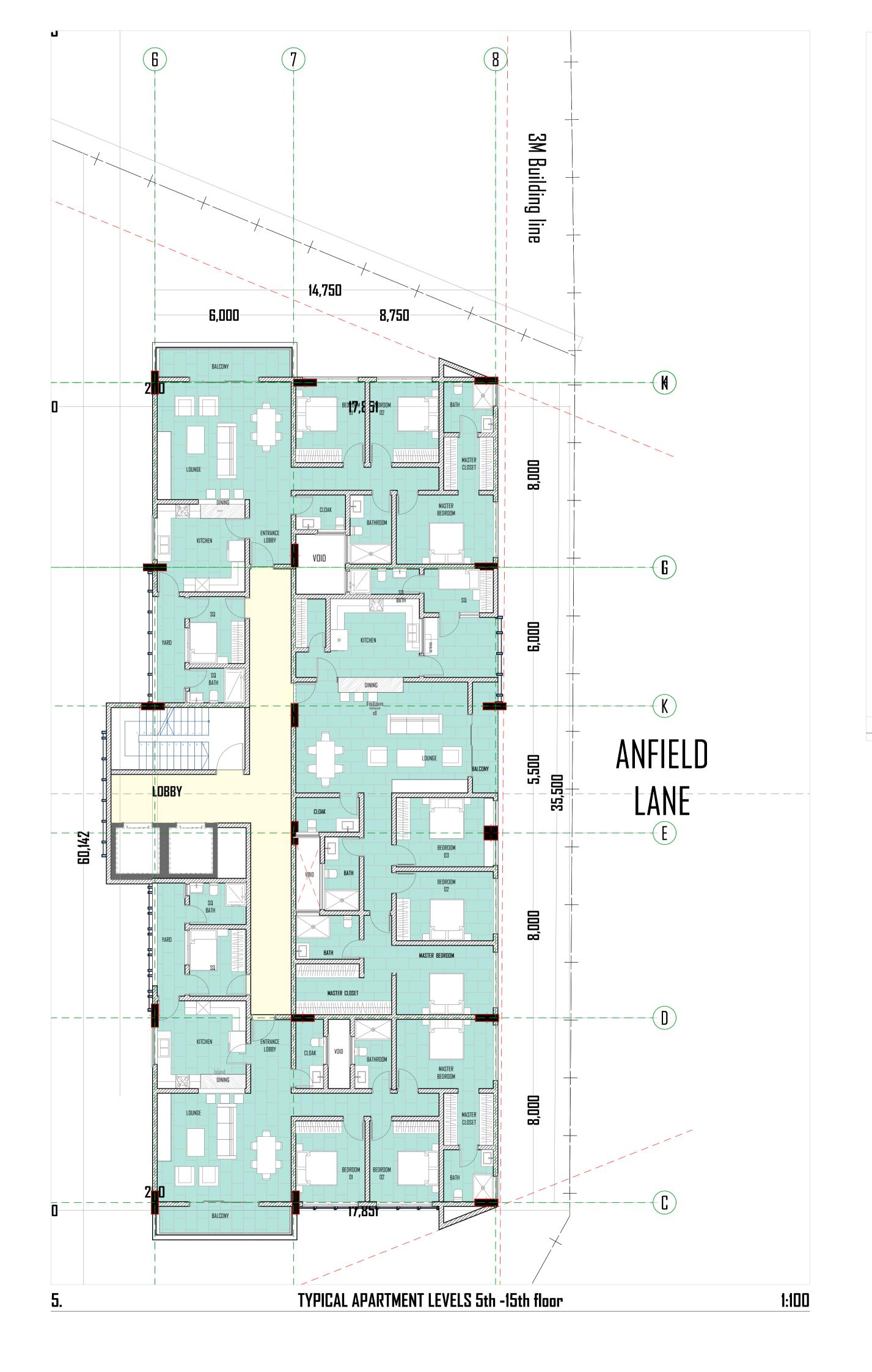
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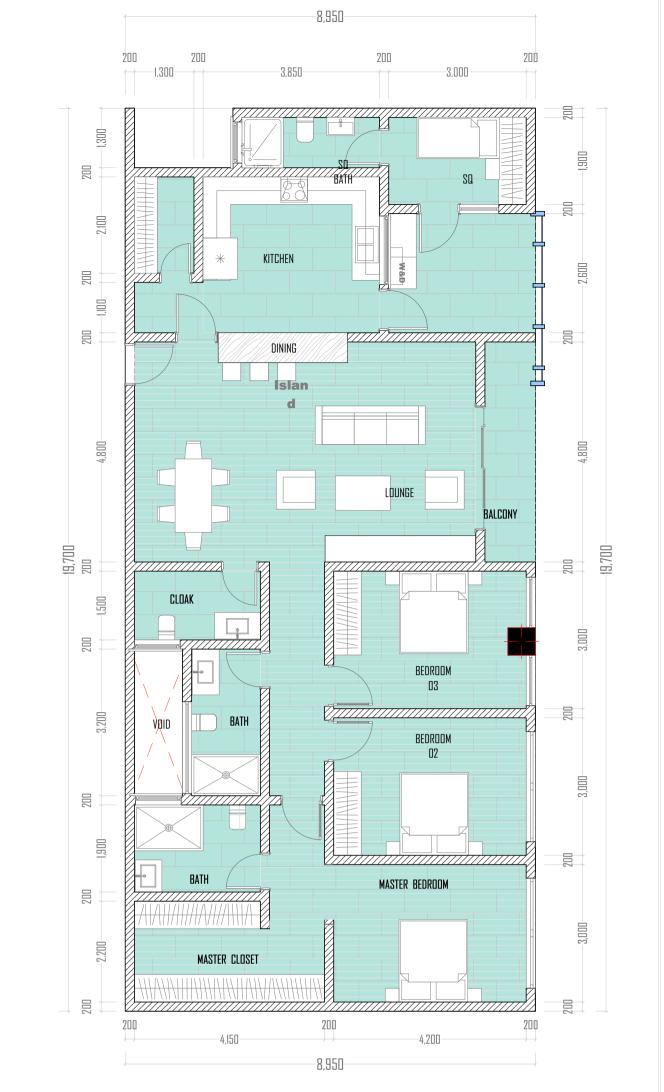
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Drawing Title

3rd Floor

Drawing Reference No. BSL-00-00-00





THREE BEDROOM -Type B

3 BEDROOM UNIT-Type B UNIT AREA-**158sqm** 1 units per floor





architecture | design | project management

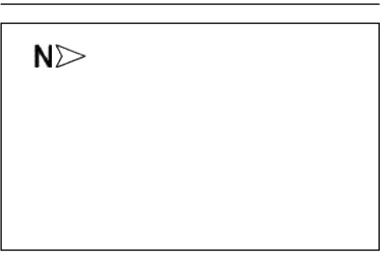
abc place waiyaki way westlands p. o. box 25269-00100 nairobi, kenya www.blinkstudio.co.ke











KEYPLAN

Description Project PROPOSED DEVELOPMENT

SCHOOL LANE, WESTLANDS

CAD File **Drawing Title**

TOWER B

Drawing Reference No. BSL-00-00-00

FORM PLUPA/DC/8 SN: SUB-004928

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-001566-N

NOTIFICATION OF APPROVAL OF APPLICATION

TO Mohamed Khalid Ayub

Through Blink Studio Ltd.

Architect, Reg. No: 264A

Your plan Reg. PLUPA-BPM-001566-N submitted on 10th, January 2023

For permission to develop The Proposed Development on School Lane, Westlands on

L.R. / Parcel No 1870/III/233 (NAIROBI BLOCK 5/402) with Coordinates -1.2596, 36.7992

Situated in Westlands, Parklands/Highridge in Westlands Sub-county

Along School Lane has been APPROVED on 21st, February 2023

By the Urban Planning Technical Committee tabled under Item No 89

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



Date 21st, February 2023

For CECM Built Environment and Urban Planning

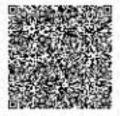
CC:

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-001566-N SN: SUB-004928

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. Provision of facilities for physically challenged persons.
- p. Approval to be renewed on expiry for uncompleted works.
- q. Solar for hot water as per ERC Act.
- r. Occupation Permit being obtained before occupation
- s. The plot not constituting part of any disputed private or public utility allocations
- t. Wayleave for sewer, water, power, drainage, riparian way leave, being maintained
- u. 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
- v. no trees shall be cut down and/or uprooted without permission from Director of Environment City Council of Nairobi
- w. Solar energy for hot water





EXECUTIVE OFFICE OF THE PRESIDENT

NAIROBI METROPOLITAN SERVICES LAND & PHYSICAL PLANNING



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

Kenyatta International Convention Centre 1 st Floor, Impala Room P.O. Box 40530-00100 Tel: 254(0)20 20217774/3 NAIROBI

Our Ref: PLUPA-COU-000516-W

Date: 17th, November 2022

TO Islamic Foundation None

Through John Thomas Ngugi Mbau

NOTIFICATION OF APPROVAL OF DEVELOPMENT PERMISSION

Your application Ref No. PLUPA-COU-000516-W submitted on 3rd, November 2022 seeking permission for Change of Use - Renewal of L.R. No 1870/III/233) on Coordinates -1.2596, 36.7992 located along Matundu Lane in Westlands Sub-county from Single dwelling unit to Residential (Apartments / Flats) cum Offices has been

APPROVED

Tabled under Item No. **32** On this day **17th, November** of **2022** subject to fulfilling the conditions listed overleaf.

FOR: ASSISTANT DIRECTOR, POLICY IMPLEMENTATION SECTION

ON BEHALF OF DIRECTOR GENERAL, NAIROBI METROPOLITAN SERVICES



The passing of this plan operates as an approval thereof only for the purpose of requirements of the County Government (Adopt By-Laws) (Building) Order 1968 L.N. 15/1969, The City of Nairobi (Building) By-laws, 1984 G.N. 313/1949, The Public Health Act (Cap 242), the Physical and Land Use Planning Act Sections 36, 41 and 52; and any rules made there under.

This approval is hereby granted pursuant with the provisions of the above mentioned Bylaws subject to: -

- 1) Submission of satisfactory building plans within two years and completion of construction within three years otherwise the approval lapses.
- 2) Payment of revised ground rent as will be determined by the Director of Valuation, Ministry of Lands and Physical Planning.
- 3) Payment of revised rates as will be determined by the Director Valuation & Property Management Nairobi City County.
- 4) Subject to the plot not constituting part of the disputed public/private utility land/allocations.
- 5) Subject to compliance with Sections 56, 57, 58 and 59 of the Physical and Land Use Planning Act.
- 6) Subject to compliance with the approved zoning policy.
- 7) Subject to undertaking an EIA and obtaining NEMA License before commencement of any works.
- 8) Subject to provision of appropriate setback(s) as per the rezoning plan.
- 9) Subject to provision of adequate and functional on-site parking to the satisfaction of Director of Roads, Public Works & Transport.
- 10)Subject to the proposed development maintaining the requisite of 3m, 6m, 9m building line as per the statutes.
- 11) Subject to the development maintaining the residential character and densities of the area.
- 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 Lands Registrar



THE PROPOSED RESIDENTIAL APARTMENTS CUM COMMERCIAL DEVELOPMENT ON PLOT L.R NO. 1870/111/233 FOR THE ISLAMIC FOUNDATION NAIROBI REGISTERED TRUSTEES AT WESTLANDS, NAIROBI CITY COUNTY

No	Description	Unit	Qty	Rate (ksh)	Amount
	GRAND SUMMARY PAGE				
1.0	Substructure Works				20,675,325.00
2.0	Basement 02				16,909,776.00
3.0	Basement 01				16,234,765.00
4.0	Ground floor				14,697,000.00
5.0	First floor				14,109,545.00
6.0	Second floor				14,109,545.00
7.0	Third floor				14,109,545.00
8.0	Forth Floor				12,462,176.00
9.0	Typical floors (5th-23rd floor)		19	16,734,786	317,960,934.00
10.0	PC SUM for Electrical works				43,197,254.00
11.0	PC SUM for mechanical Works				39,000,000.00
					523,465,865.00
	Prepared By : QS (24/04/2023)				

THOMAS NGUGI KIMANI, P.O. BOX 210-00618 NAROBI TEL: 0723 471 365 info@greensheild.co.ke 12TH MAY 2023.

COUNTY DIRECTOR OF ENVIRONMENT, NYAYO HOUSE, 16TH FLOOR, NAIROBI CITY COUNTY, P.O. BOX 67839-00200, NAIROBI.

Dear Sir/Madam,

ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED APARTMENTS
DEVELOPMENT ON PLOT L.R. No 1870/111/233 ALONG SCHOOL LANE,
WESTLANDS NAIROBI CITY COUNTY

RE: INVITATION TO ATTEND PUBLIC MEETING

This letter is to inform you of the above proposed project. The proponent -The Islamic Foundation Nairobi Registered Trustees of P.O. Box 30611-00100, Nairobi - proposes to construct two -18 and 24 floor residential cum commercial apartment blocks housing residential units of different typologies (1,2&3 bedroom), commercial spaces and associated works on plot L.R. No. 1870/111/233 along School lane, Westlands, Nairobi County.

The terms of reference of the proposed project have been approved. Find attached copy of approval letter. We intend to conduct public participation meeting with the project affected parties in the area on Friday, 19th May, 2023 at 10:00 am. The venue will be at the proposed project site on plot L.R. No, 1870/111/233 along School Lane, Westlands.

This letter is to inform your office, being one of the lead agencies in environmental matters in Nairobi County to share with us any views or concerns pertaining the proposed project. We take this opportunity to invite you to attend the public meeting or if possible send a representative. For any inquiries, kindly contact Thomas on Tel: 0723 471 365. Thank you in advance,

AFMA NAIROBI COUNTY

Yours faithfully,

Thomas Ngugi - Project Environmental Coordinator

PUBLIC NOTICE

RE: INVITATION TO A PUBLIC PARTICIPATION MEETING FOR THE PROPOSED APARTMENTS DEVELOPMENT ON PLOT L.R 1870/111/233 IN WESTLANDS NAIROBI CITY COUNTY

The project proponent proposes to construct TWO -18 and 24 floor residential cum commercial apartment blocks housing residential units and commercial spaces of different typologies on plot L.R. No 1870/111/233 along School lane, Westlands, Nairobi County. Pursuant to Environmental Management and Coordination Act of 1999 and Regulation 17 of the Environmental (Impact Assessment and Audit) Regulations, 2003 (amended 2019), the proponent notified and invited to public consultative meetings to held as scheduled below.

FIRST PUBLIC MEETING

VENUE: The proposed site on plot L.R. No1870/111/233 along School Lane, Westlands

DATE: Wednesday, 17th May 2023

TIME: 10:00 am

SECOND PUBLIC MEETING

VENUE: The proposed site on plot L.R. No1870/111/233 along School Lane, Westlands

DATE: Thursday, 18th May 2023

TIME: 10:00 am

THIRD PUBLIC MEETING

VENUE: The proposed site on plot L.R. No1870/111/233 along School Lane, Westlands

DATE: Friday, 19th May 2023

TIME: 10:00 am

For any inquiries contact us through: Tel: 0723471365. Written submissions can be sent to EMAIL: Into@greenshield.co.ke or P.O. BOX 210-00618 NAROBI



PUBLIC NOTICE

RE: INVITATION TO A PUBLIC PARTICIPATION MEETING FOR THE PROPOSED APARTMENTS DEVELOPMENT ON PLOT L.R 1870/111/233 IN WESTLANDS NAIROBI CITY COUNTY

The project proponent proposes to construct TWO -18 and 24 floor residential cum commercial apartment blocks housing residential units and commercial spaces of different typologies on plot L.R. No 1870/111/233 along School lane, Westlands, Nairobi County. Pursuant to Environmental Management and Coordination Act of 1999 and Regulation 17 of the Environmental (Impact Assessment and Audit) Regulations, 2003 (amended 2019), the proponent notified and invited to public consultative meetings to held as scheduled below.

FIRST PUBLIC MEETING

VENUE: The proposed site on plot L.R. No1870/111/233 along School Lane, Westlands

DATE: Wednesday, 17th May 2023

TIME: 10:00 am

SECOND PUBLIC MEETING

VENUE: The proposed site on plot L.R. No1870/111/233 along School Lane, Westlands

DATE: Thursday, 18th May 2023

TIME: 10:00 am

THIRD PUBLIC MEETING

VENUE: The proposed site on plot L.R. No1870/111/233 along School Lane, Westlands

DATE: Friday, 19th May 2023

TIME: 10:00 am

For any inquiries contact us through: Tel: 0723471365. Written submissions can be sent to EMAIL: Into@greenshield.co.ke or P.O. BOX 210-00618 NAROBI

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THOMAS NGUGI KIMANI, P.O. BOX 210-00618 NAROBI TEL: 0723 471 365 info@greensheild.co.ke 11TH MAY 2023.

TO CHIEF, HIGHRIDGE LOCATION, WESTLANDS SUB-COUNTY

Dear Sir/Madam,

ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED APARTMENTS DEVELOPMENT ON PLOT L.R. No 1870/111/233 ALONG SCHOOL LANE, WESTLANDS NAIROBI CITY COUNTY

RE: REQUEST TO HOLD PUBLIC MEETING

This letter is to inform you of the above proposed project and our intention to invite members of the public in your location for a public meeting pursuant to Environmental Management and Coordination Act of 1999 and Regulation 17 of the Environmental (Impact Assessment and Audit) Regulations, 2003 (amended 2019). The project proponent -The Islamic Foundation Nairobi Registered Trustees of P.O. Box 30611-00100, Nairobi - proposes to construct two -18 and 24 floor residential cum commercial apartment blocks housing residential units of different typologies (1,2&3 bedroom), commercial spaces and associated works on plot L.R. No. 1870/111/233 along School lane, Westlands, Nairobi County.

We intend to conduct three public meetings with the project affected parties in the area on Wednesday 17th May 2023, Thursday, 18th May 2023 and on Friday, 19th May, 2023 at 10:00 am. The venue will be at the proposed project site on plot L.R. No. 1870/111/233 along School Lane, Westlands.

This letter is to request your office to assist us to organize, inform and invite the members of the public in your location to the above scheduled public meetings. The main agenda of the meeting shall be to inform the public of the upcoming project and to seek their views or concerns pertaining the proposed project. We take this opportunity to invite you to attend the public meetings. For any inquiries, kindly contact Thomas on Tel: 0723 471 365. Thank you in advance,

Yours faithfully,

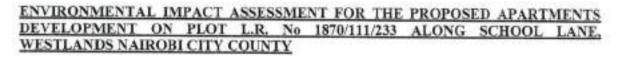
Thomas Ngugi - Project Environmental Coordinator

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THOMAS NGUGI KIMANI, P.O. BOX 210-00618 NAROBI TEL: 0723 471 365 info@greensheild.co.ke 11TH MAY 2023.

TO CHIEF, PARKLANDS LOCATION,

Dear Sir/Madam,



RE: REQUEST TO HOLD PUBLIC MEETING

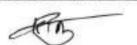
This letter is to inform you of the above proposed project and our intention to invite members of the public in your location for public meetings pursuant to Environmental Management and Coordination Act of 1999 and Regulation 17 of the Environmental (Impact Assessment and Audit) Regulations, 2003 (amended 2019). The project proponent -The Islamic Foundation Nairobi Registered Trustees of P.O. Box 30611-00100, Nairobi - proposes to construct two -18 and 24 floor residential cum commercial apartment blocks housing residential units of different typologies (1,2&3 bedroom), commercial spaces and associated works on plot L.R. No. 1870/111/233 along School lane, Westlands, Nairobi County.

We intend to conduct three public meetings with the project affected parties in the area on Wednesday 17th May 2023, Thursday, 18th May 2023 and on Friday, 19th May, 2023 at 10:00 am. The venue will be at the proposed project site on plot L.R. No. 1870/111/233 along School Lane, Westlands.

This letter is to request your office to assist us to organize, inform and invite the members of the public in your location to the above scheduled public meetings. The main agenda of the meeting shall be informing the public of the upcoming project and to seek their views or concerns pertaining the proposed project. We take this opportunity to invite you to attend and chair the public meetings. For any inquiries, kindly contact Thomas on Tel: 0723 471 365. Thank you in advance,

Yours faithfully,

Thomas Ngugi - Project Environmental Coordinator



MINUTES OF THE PUBLIC PARTICIPATION MEETING FOR THE EIA STUDY FOR THE PROPOSED APARTMENTS DEVELOPMENT ON PLOT L.R.NO. 1870/111/233 HELD ON WEDNESDAY, 17TH MAY 2023 AT 10AM AT THE PROPOSED SITE, SCHOOL LANE, WESTLANDS, NAIROBI COUNTY.

IN ATTENDANCE

See attached attendance register

AGENDA

The agenda was as follows:

- Opening remarks/prayer
- Introduction of participants and Overview of the agenda of the meeting
- Project Description
- Presentation of the EIA process
- Question and answer session
- Closing and adjourning of meeting

MIN 1/17/05/2023: PRELIMINARIES

The Chief Ngugi called the meeting to at 10:31 am order and requested one of the community member to pray. He then made the opening remarks and did the introduction of the community members. He then allowed the EIA team, Islamic Foundation representative and Blink Studio representative to introduce themselves to the members of the community. The chief explained the importance of public participation and requested the members to air their concerns, views and suggestions about the proposed project as freely as possible.

MIN 2/17/05/2023: PROPOSED PROJECT PRESENTATION

The Architect, Mr. Simon Mwai, explained the proposed project is a residential cum commercial housing project (apartment development project whose objective is to put up modern residential apartments and commercial space. He told participants that the project will have the following features:

Plot number: 1870/111/233

Plot size: 0.3275 HA

- Two- 18 and 24 Floor Apartment Blocks
- 236 units of different typologies: (1,2 and 3 bed-room apartments) to be housed in 17 floors.
- First floor to third floor to serve as parking and commercial space -shops and offices
- Two level basements to serve as parking bay.
- Roof top to house a swimming pool and a restaurant.
- The project is to take 24 months to complete after acquiring the necessary licenses and permits.

Expected start date is August 2023.

MIN 3/17/05/2023: PRESENTATION OF THE EIA PROCESS AND EMP

- The Project Environmental Coordinator explained that the requirement for an EIA is enshrined in the Environmental Management and Coordination Act (EMCA), 1999, (amended in 2015) which is the framework law on environmental management in Kenya.
- The Act provides for environmental protection through processes such as Environmental Impact Assessment, Environmental Audit and Monitoring.
- The Second Schedule of the Act identifies development of projects exceeding 100 units to undergo full EIA studies
- By way of consideration of the nature of anticipated environmental and social impacts in terms
 of severity, ease of reversibility, longevity and the geographical scope which may be impacted
 by the project, it has been determined the project will be subjected to a Full EIA Study to
 enable an in-depth identification and analysis of potential impacts, and subsequent devising of
 appropriate mitigation and enhancement measures.
- The EIA process entails screening a project to determine whether an EIA is required or not, and if needed, the level of scrutiny (environmental assessment) that the project should be subjected to. Screening is followed by a baseline and scoping study to determine the nature and magnitude of anticipated environmental and social impacts
- Stakeholder consultation is a key aspect of the EIA Study and, is anchored in the Constitution
 of Kenya 2010. It is therefore crucial that stakeholders in any given development are identified
 and engaged at various levels with an aim of obtaining their views, concerns, suggestions and
 recommendations, to be incorporated in the project. The environmental coordinator explained
 that it is for this reason that stakeholder engagement is being carried out with various parties
 including line national government institutions, county government and local residents.
- Impact prediction and analysis paves way for the development of the EMP whereby appropriate mitigation measures are devised for anticipated adverse impacts and enhancement measures are suggested for positive impacts
- The EIA Consultant will prepare an elaborate EMP to cater for all anticipated project impacts.

- Some of the mitigations measures to be proposed will largely be informed by best industry practice,
- Several sub-studies will be carried out as part of the EIA Study with a view of establishing the baseline.
- Environmental Coordinator explained that the Terms of Reference for the EIA Study had been submitted to NEMA for review and the approval to proceed with the study had been granted
- Once the EIA Report is submitted to NEMA, the Authority will generate the summary of
 potential impacts and mitigation measures for publication in two local dailies and in the Kenya
 gazette. The public will be invited through the advert to peruse the report and give comments
 over a period of thirty days.
- NEMA will then review the report and make a decision as to whether to issue an EIA license with conditions or not issue the EIA license

The environmental coordinator further told participants that activities associated with the proposed project and which may lead to adverse environmental and social impacts to members of the public include site demolition and clearance of vegetation; topsoil removal; demolition works; excavation works; disposal of excavated materials; disposal of surplus demolition and excavated materials; backfilling works; construction of the proposed building, compaction; and surface restorations and reinstatement.

With regard to environmental and Impacts, participants were told that implementation of the project will result in both positive and adverse impacts to physical and human environments. Among the impacts associated with the proposed project include possible blockage of drainage channels; increased energy and water usage, accidents and injuries to workers and residents; solid waste generation; air pollution; and noise impact among others. Mr. Ngugi finished off his presentation by inviting the Chief to open the plenary session to the members of the public to field their questions, comments, suggestions and views.

MIN 4/17/05/2023: PLENARY SESSION

The meeting then progressed to an interactive session whereby the participants were given the opportunity to ask questions, make comments, seek clarification, and air their views, concerns and recommendations for incorporation into the project development

PARTICIPANT NAME	ISSUES RAISED	RESPONCE
Otieno Demo	Welcomed the project in the area and praised the investor for involving the community in the project. Wanted to know how the locals youths shall get jobs at the construction site once the	Mr. Ngugi informed the stakeholders that once all the project approvals and lisencing have been acquired. The contractor shall be responsible for for employing labour. Local youths shall be given first priority as long as they have I.D.s and good conduct. He urged the youth to keep on visiting the site to seek

	project begins. Lastly Peter wanted an assurance that the youths who get job at the site shall not be exploited	employment when the work begin. On exploitation of the worker, all the workers at the site especially the casual labourers shall be paid by the rates prescribed by the Ministry of Labour
John Matolo	Wanted to know the measures put in place to protect the integrity of building since there is history of houses collapsing while under construction.	Mr. Mwai responded that the project is being handled by a team of experienced consultants and that the contractor shall be rigorously vetted. Furthermore, the contractor shall use the right materials during construction. Inspections shall be conducted regularly to ensure construction is done according to Engineers specifications.
	Wanted to Know how the project will impact on water supply and how it shall be mitigated	Mr. Nuru responded that a nearby borehole will be used to supplement the main water supply. If need be a borehole may be sunk at the site.
Maxwel Omondi	Welcomed the project in the area. Wanted to know how infrastructure degradation during construction acknowledging the presence of construction of heavy machinery and material delivery trucks	Mr. Ngugi responded by saying any infrastructure destroyed during construction shall be repaired at the proponents cost.
	Wanted to know if the proponent shall assist the local community in implementing community projects CSR	Mr. Nuru responded by saying that he shall support community project that shall be identified by the community members.
Dorcas Wanjiru	Wanted to know the measures put in place to ensure safety of the workers and if a worker is injured at the site is there insurance cover to compensate.	Mr. Ngugi responded that the site shall be registered as work place with DOSHS and that all the workers at the site have WIBA cover. Additionally, the contractor who shall be awarded the contract is expected to have a safety plan to govern the site activities, a trained first aider and contacts of emergency care providers like ambulance services.

	Wanted to know how dust shall be controlled during construction	Mr. Ngugi responded that a water sprinkler shall be placed at the site in order to water dusty areas and the road leading to the site.
£()	Wanted to know if the local food vendors will be allowed to sell food to the workers and what will be done to prevent workers from running away with food bill	Mr. Nuru responded by saying women shall be given equal opportunity to work at the site. He said a shed shall be constructed at the site for women who shall be in food supply business. Mr. Ngugi responded that food venders shall be vetted to be able to sell the food to the workers at the site. He encouraged the food vendors to talk to the foremen so that they can deduct food bill before paying the workers
Martin Makasembo	Wanted to how the insecurity issues at the site shall be handled	Mr.Nuru responded that all the workers at the site shall be vetted before employment. Any robbery case shall be forwaded to Chief and the police for action
Jakim Odhiambo	Wanted to the purpose of the project be she had noted some projects in the area which encourage alcoholism and prostitution	Mr. Nuru said the building shall be used a multi dwelling residential house only.
Joseph Kamau	Wanted to know about the impact of the project on energy	Mr.Ngugi responded that an energy assessment shall be done to ascertain the energy needs of the project and a transformer upgrade shall be done if need be. The project shall also incorporate solar energy to light common areas and heat water A stand by generator shall be installed at the site.

MIN 5/17/05/2023: ANY OTHER BUSINESS AND ADJOURNMENT

The Chief thanked the members of the community for making time to attend the meeting. The meeting ended at 12.08 pm with a word of prayer.

ENVIRONMENTAL IMPACT ASSESSMENT STUDY FOR THE PROPOSED APARTMENTS DEVELOPMENT ON PLOT L.R. No. 1870/111/233 WESTLANDS, NAIROBI CITY COUNTY

PUBLIC MEETING AFTENDANCE RECORD

DATE 17th MAY 2023 FINE 10: ROAM VENUE (ROPOSED SITE PLOT L.R. No. 1870/11/1/33

/No.	S/No. FULL NAME		ORGANISATION REPRESENTED	MOBILE NUMBER	SIGNATURE
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ENVIRONMENTAL IMPACT ASSESSMENT STUDY FOR THE PROPOSED APARTMENTS DEVELOPMENT ON PLOT L.R. No. 1870/111/233 WESTLANDS, NAIROBI CITY COUNTY

PUBLIC MEETING ATTENDANCE RECORD

DATE 17" MAY 2023 TIME 10,00 AM VENUE PROSED STE PLOT L.R.No. 1870/11/233

S/No.	S/No. FULL NAME	ORGANISATION REPRESENTED	MOBILE NUMBER	SIGNATURE
1.	Chris Karinki	Cartant	0725463892	James D
2	Tony Edougo	Physical Planner	5+98544020)
e,	Thomas Navo! Uman	lead Expert	072347365	100
4	MWA SIMBIL	ARCH TOT	07623387G	S. Carrie
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MINUTES OF THE PUBLIC PARTICIPATION MEETING FOR THE EIA STUDY FOR THE PROPOSED APARTMENTS DEVELOPMENT ON PLOT L.R.NO. 1870/111/233 HELD ON THURSDAY, 18TH MAY 2023 AT 10AM AT THE PROPOSED SITE, SCHOOL LANE, WESTLANDS, NAIROBI COUNTY.

VENUE	Proposed site (Plot L.R. No. 1870/111/233) along School Lane, Westlands
DATE AND TIME	Thursday, 18th May 2023 from 10.21am to 12:14 pm

IN ATTENDANCE

See attached attendance register

AGENDA

- 1. Preliminaries
- 2. Proposed Project Presentation
- 3. EIA Process and Predicted Impacts Presentation
- 4. Plenary Session
- 5. A.O.B and Closing of the Meeting

MIN 1/18/05/2023: PRELIMINARIES

Chief Ngugi called the meeting to order at 10:21 am and requested one of the community members to pray. He made the opening remarks and did the introduction of the village elders and community volunteers. She then allowed the EIA team to introduce themselves to the members of the community. The chief explained the importance of public participation and requested the members air their concerns, views and suggestions about the proposed project as freely as possible.

MIN2/18/05/2023: PROPOSED PROJECT PRESENTATION

The Architect, Mr. Simon Mwai, explained the proposed project is a residential cum commercial housing project (apartment development project whose objective is to put up modern residential apartments and commercial space. He told participants that the project will have the following features:

Plot number: 1870/111/233

Plot size: 0.3275 HA

- Two- 18 and 24 Floor Apartment Blocks
- 236 units of different typologies: (1,2 and 3 bed-room apartments) to be housed in 17 floors.
- First floor to third floor to serve as parking and commercial space -shops and offices
- Two level basements to serve as parking bay.
- Roof top to house a swimming pool and a restaurant.
- The project is to take 24 months to complete after acquiring the necessary licenses and permits.
- Expected start date is August 2023.

MIN 3/18/05/2023: EIA PROCESS AND PRESENTATION OF LIKELY IMPACTS

- The Project Environmental Coordinator explained that the requirement for an EIA is enshrined in the Environmental Management and Coordination Act (EMCA), 1999, (amended in 2015) which is the framework law on environmental management in Kenya.
- The Act provides for environmental protection through processes such as Environmental Impact Assessment, Environmental Audit and Monitoring.
- The Second Schedule of the Act identifies development of projects exceeding 100 units to undergo full EIA studies
- By way of consideration of the nature of anticipated environmental and social impacts in terms of severity, ease of reversibility, longevity and the geographical scope which may be impacted by the project, it has been determined the project will be subjected to a Full EIA Study to enable an in-depth identification and analysis of potential impacts, and subsequent devising of appropriate mitigation and enhancement measures.
- The EIA process entails screening a project to determine whether an EIA is required or not, and if needed, the level of scrutiny (environmental assessment) that the project should be subjected to. Screening is following by a baseline and scoping study to determine the nature and magnitude of anticipated environmental and social impacts
- Stakeholder consultation is a key aspect of the EIA Study and, is anchored in the Constitution
 of Kenya 2010. It is therefore crucial that stakeholders in any given development are
 identified and engaged at various levels with an aim of obtaining their views, concerns,
 suggestions and recommendations, to be incorporated in the project. The environmental
 coordinator explained that it is for this reason that stakeholder engagement is being carried

out with various parties including line national government institutions, county government and local residents.

- Impact prediction and analysis paves way for the development of the EMP whereby appropriate mitigation measures are devised for anticipated adverse impacts and enhancement measures are suggested for positive impacts
- The EIA Consultant will prepare an elaborate EMP to cater for all anticipated project impacts.
 Some of the mitigations measures to be proposed will largely be informed by best industry practice,
- Several sub-studies will be carried out as part of the EIA Study with a view of establishing the baseline.
- Environmental Coordinator explained that the Terms of Reference for the EIA Study had been submitted to NEMA for review and the approval to proceed with the study had been granted
- Once the ESIA Report is submitted to NEMA, the Authority will generate the summary of
 potential impacts and mitigation measures for publication in two local dailies and in the
 Kenya gazette. The public will be invited through the advert to peruse the report and give
 comments over a period of thirty days.
- NEMA will then review the report and make a decision as to whether to issue an EIA license with conditions or not issue the EIA license

The environmental coordinator further told participants that activities associated with the proposed project and which may lead to adverse environmental and social impacts to members of the public include site demolition and clearance; topsoil removal; demolition works; excavation works; disposal of excavated materials; disposal of surplus demolition and excavated materials; backfilling works; construction of the proposed building, compaction; and surface restorations and reinstatement.

With regard to environmental and Impacts, participants were told that implementation of the project will result in both positive and adverse impacts to physical and human environments. Among the impacts associated with the proposed project include possible blockage of drainage channels; increased energy and water usage, accidents and injuries to workers and residents; solid waste generation; air pollution; and noise impact among others. Mr. Ngugi finished off his presentation by inviting the area Chief to open the plenary session to the members of the public to field their questions, comments, suggestions and views.

MIN 4/18/05/2023; PLENARY SESSION

The members of the public were invited to air their views concerning the agenda of the day and they responded as follows:

NAME	QUESTION	RESPONSE
Martin Makau	Wanted to know how the locals shall get jobs at the construction site once the project begins. Wanted an assurance that the youths who get job at the site shall not be exploited	Mr. Ngugi informed the stakeholders that once all the project approvals and lisencing have been acquired, a tender notice shall be issued requesting for qualified contractors to develop the project. The contractor shall be responsible for for employing labour. He urged the youth to keep on visiting the site to seek employment when the work begin. On exploitation of the worker, the Architect responded that all the workers at the site especially the casual labourers shall be paid by the rates prescribed by the Ministry of Laour
Patrick Ogisa	Wanted to know the measures put in place to protect the integrity of building since there is history of houses collapsing while under construction.	The Architect responded that the project is being handled by a team of experienced consultants and that the contractor shall be rigously vetted. Furthermore, the contractor shall use the right materials during construction. Inspections shall be conducted regulary to ensure construction is done according to Engineers specifications.
Caleb Ifedha	Wanted to know how traffic shall be controlled during construction acknowledging the presence of construction machinery and material delivery trucks	Mr. Ngugi responded by saying a traffic marshall shall be placed at the site entrance to control traffic. Furthermore, materials shall be delivered during off peak hours to avoid distraction.
Paul Musyoka	Wanted to know the measures put in place to ensure safety of the workers and if a worker is injured at the site is there insurance cover to compensate.	Mr. Ngugi responded that the site shall be registered as work place with DOSHS and that all the workers at the site have WIBA cover. Additionally, the contractor who shall be awarded the contract is expected to have a safety plan to govern the site activities, a trained first aider and contacts of emergency care providers like ambulance services.
Lilian N. Waweru	Wanted to know if the local food vendors will be allowed to sell food to the workers and what will be done to prevent workers from running away with food bill	Mr. Ngugi responded that food venders shall be vetted to be able to sell the food to the workers at the site. He encouraged the food vendors to talk to the foremen so that they can deduct food bill before paying the workers

MIN5/18/05/2023: ANY OTHER BUSINESS AND ADJOURNMENT

The Chief, thanked the members of the community for making time to attend the meeting. The meeting ended at 12.14 pm.

MINUTES PREPARED BY THOMAS NGUGI,

PROJECT ENVIRONMENTAL COORDINATOR AND REGISTERED EIA/EA LEAD EXPERT, NEMA REG. NO. 6679

SIGNATURE DATE 22-05 2023

CONFIRMED AS TRUE MINUTES OF THE MEETING BY CHEIF, HIGHRIDGE LOCATION.

SIGNATURE.

DATE

ENVIRONMENTAL IMPACT ASSESSMENT STUDY FOR THE PROPOSED APARTMENTS DEVELOPMENT ON PLOT L.R. No. 1870/111/233 WESTLANDS, NAIROBI CITY COUNTY

PUBLIC MEETING ATTENDANCE RECORD

DATE 18TH WAY 2023 TIME 10; 00 Am VENUE TOPPOSED SITE, SCHOOLLINE, WESTLANDS

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ENVIRONMENTAL IMPACT ASSESSMENT STUDY FOR THE PROPOSED APARTMENTS DEVELOPMENT ON PLOT L.R. No. 1870/111/233 WESTLANDS, NAIROBI CITY COUNTY

PUBLIC MEETING ATTENDANCE RECORD

DATE 18TH MAY 2023 TIME (D: OOKM VENUE POPICED SITE ALONG SCHOOLLAND WETLAND

S/No.	S/No. FULL NAME	ORGANISATION REPRESENTED	MOBILE NUMBER	SIGNATURE
1.	Must Simon	4RUHTBOT	0710233876	· · · · ·
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MINUTES OF THE PUBLIC PARTICIPITATION MEETING FOR THE EIA STUDY FOR THE PROPOSED APARTMENTS DEVELOPMENT ON PLOT L.R.NO. 1870/111/233 WESTLANDS, NAIROBI CITY COUNTY

Venue	The proposed site on Plot L.R. No. 1870/111/233, School Lane, Westlands, Nairobi	
Date and time	Friday, 19th May 2023 at 10:00 am	

IN ATTENDANCE

See attached attendance register

AGENDA

The agenda was as follows:

- Opening remarks
- · Introduction of participants and overview of the agenda of the meeting
- Project Description
- Presentation of the EIA process
- Plenary Session
- Closing of meeting/A.O.B

MIN 1/19/05/2023: PRELIMINARIES

The Parklands Location Chief, Mr. Geoffrey called the meeting to order at 10:43 am and requested one of the community member to pray. He then made the opening remarks and did the introduction of the community members. He then allowed the EIA team, Islamic Foundation representatives and Blink Studio (Architectural firm) to introduce themselves to the members of the community. The chief explained the importance of public participation and requested the members to air their concerns, views and suggestions about the proposed project as freely as possible. Senior Chief Ngugi, Highridge Location, made his opening remarks and welcomed the EIA Team in the area. He handed over the meeting to the EIA team.

MIN 2/19/05/2023: PROPOSED PROJECT PRESENTATION

The Architect, Mr. Simon Mwai, explained the proposed project is a residential cum commercial housing project (apartment development project whose objective is to put up modern residential apartments and commercial space. He told participants that the project will have the following features:

Plot number: 1870/111/233

Plot size: 0.3275 HA

- Two- 18 and 24 Floor Apartment Blocks
- 236 units of different typologies: (1,2 and 3 bed-room apartments) to be housed in 17 floors.
- · First floor to third floor to serve as parking and commercial space -shops and offices
- · Two level basements to serve as parking bay.
- · Roof top to house a swimming pool and a restaurant.
- The project is to take 24 months to complete after acquiring the necessary licenses and permits.
- Expected start date is August 2023.

MIN 3/19/05/2023: PRESENTATION OF THE EIA PROCESS AND EMP

- The Project Environmental Coordinator, Mr. Thomas Ngugi explained that the requirement for an EIA is enshrined in the Environmental Management and Coordination Act (EMCA), 1999, which is the framework law on environmental management in Kenya.
- The Act provides for environmental protection through processes such as Environmental Impact Assessment, Environmental Audit and Monitoring.
- The Second Schedule of the Act identifies development of projects exceeding 100 units to undergo full EIA studies
- By way of consideration of the nature of anticipated environmental and social impacts in terms
 of severity, ease of reversibility, longevity and the geographical scope which may be impacted
 by the project, it has been determined the project will be subjected to a Full EIA Study to
 enable an in-depth identification and analysis of potential impacts, and subsequent devising of
 appropriate mitigation and enhancement measures.
- The EIA process entails screening a project to determine whether an EIA is required or not, and if needed, the level of scrutiny (environmental assessment) that the project should be subjected to. Screening is following by a baseline and scoping study to determine the nature and magnitude of anticipated environmental and social impacts
- Stakeholder consultation is a key aspect of the EIA Study and, is anchored in the Constitution
 of Kenya 2010. It is therefore crucial that stakeholders in any given development are identified
 and engaged at various levels with an aim of obtaining their views, concerns, suggestions and
 recommendations, to be incorporated in the project. The environmental coordinator explained

- that it is for this reason that stakeholder engagement is being carried out with various parties including line national government institutions, county government and local residents.
- Impact prediction and analysis paves way for the development of the EMP whereby appropriate mitigation measures are devised for anticipated adverse impacts and enhancement measures are suggested for positive impacts
- The EIA Consultant will prepare an elaborate EMP to cater for all anticipated project impacts.
 Some of the mitigations measures to be proposed will largely be informed by best industry practice,
- Several sub-studies will be carried out as part of the EIA Study with a view of establishing the baseline.
- Environmental Coordinator explained that the Terms of Reference for the EIA Study had been submitted to NEMA for review and the approval to proceed with the study had been granted
- Once the ESIA Report is submitted to NEMA, the Authority will generate the summary of
 potential impacts and mitigation measures for publication in two local dailies and in the Kenya
 gazette. The public will be invited through the advert to peruse the report and give comments
 over a period of thirty days.
- NEMA will then review the report and make a decision as to whether to issue an EIA license with conditions or not issue the EIA license

The environmental coordinator further told participants that activities associated with the proposed project and which may lead to adverse environmental and social impacts to members of the public include site demolition and clearance of vegetation; topsoil removal; demolition works; excavation works; disposal of excavated materials; disposal of surplus demolition and excavated materials; backfilling works; construction of the proposed building, compaction; and surface restorations and reinstatement.

With regard to environmental and impacts, participants were told that implementation of the project will result in both positive and adverse impacts to physical and human environments. Among the impacts associated with the proposed project include possible blockage of drainage channels; increased energy and water usage, accidents and injuries to workers and residents; solid waste generation; air pollution; and noise impact among others. Mr. Thomas finished off his presentation by inviting the area Chief to open the plenary session to the members of the public to field their questions, comments, suggestions and views.

MIN 4/19/05/2023: PLENARY SESSION

The meeting then progressed to an interactive session whereby the participants were given the opportunity to ask questions, make comments, seek clarification, and air their views, concerns and recommendations for incorporation into the project development

PARTICIPANT NAME	ISSUES RAISED	RESPONCE
John Kingori- Elder Highridge/Parklands Location	Wanted to know whether the old sewer line, drainage and water reticulation system in the area will handle the proposed project?	The Architect, Mr. Mwai responded by saying the architectural plans have been approved by Nairobi County. A borehole shall be drilled to supplement Nairobi City Water. The sewer line shall be expanded to handle the waste water from the proposed project.
Joseph Mulatia	Welcomed the project in the area. Inquired on whether the local youths and women would be given jobs at the site. Enquired on how dust control would be done during the construction.	Youths in the locality and women will be prioritized when it comes to job allocation and local; leaders will be consulted on the same. The contractors comply with environmental laws and ensure that dust during construction phase is monitored and controlled effectively.
Christine Katunge	Wanted to know whether locals shall be prioritized when it comes to jobs at the site	Mr. Nuru Yusuf informed the stakeholders that once all the project approvals and lisencing have been acquired. The contractor shall be responsible for for employing labour. Local youths shall be given first priority as long as they have L.D.s and good conduct. He urged the youth to keep on visiting the site to seek employment when the work begin. On exploitation of the worker, all the workers at the site especially the casual labourers shall be paid by the rates prescribed by the Ministry of Laour
Dina Angaya	Wanted to Know how the project will impact on water supply and how it shall be mitigated	Arch. Mwai responded by saying the water from Nairobi City Water hall be supplemented by drilling borehole at the site. Due to current water shortage and water rationing, measure to prevent wastage shall be put in place. Harvesting rain water shall be implemented.
Lilian Waweru	Wanted to know the measures put in place to ensure safety of the workers and if a worker is injured at the site is there insurance cover to compensate.	Mr. Mwai responded that the site shall be registered as work place with DOSHS and that all the workers at the site have WIBA cover. Additionally, the contractor who shall be awarded the contract is expected to have a safety plan to govern the site activities, a

		trained first aider and contacts of emergency care providers like ambulance services.
	Wanted to know if the local food vendors will be allowed to sell food to the workers and what will be done to prevent workers from running away with food bill	The women shall be given equal opportunity to work at the site. He said a shed shall be constructed at the site for women who shall be in food supply business. Mr. Ngugi responded that food venders shall be vetted to be able to sell the food to the workers at the site.
Chief Geoffrey	Wanted to how the trees at the site shall be handled?	Arch. Mwai responded by saying appropriate permits shall be applied to cut down the trees. Some tree shall be preserved. The ones that shall be cut down shall be replaced after construction. Some of the tree may be uprooted and plated else where.
	Wanted to know how the infrastructure destroyed during construction shall be rehabilitated?	Mr. Mwai responded by saying that School Lane shall be expanded to handle the traffic to the site during and after construction. All amenities destroyed during construction shall be repaired appropriately.
	Wanted to know the site working hours?	Mr. Ngugi responded by saying the site working hours shall 8am-5pm. Any work done during the night and weekends shall be appropriately notified to the authority.
	Requested the local youths and women to be give jobs at the site	Nuru responded that all the workers at the site shall be vetted before employment.
Charles Ngugi - Senior Chief Highridge Location	Welcomed the project in the area and urged the local youths be given priority when employing workers	Nuru Yusuf responded by assuring the Chief and members of the public present that the local youths shall be given the local priorities. He also requests those who wish to be included in the work force to write their names and contacts together with the skills they can provide to the site.
1 (1)	Wanted to Know when the project is expected to start and the construction period.	Architect Mwai responded by saying the project shall take 24 months to complete and the expected start date is August 2023.

Wanted to know how the construction noise and safety shall be managed? Mr. Ngugi responded by saying that construction shall be done during working hours only. The contractor shall also avoid noisy machinery.

On safety of the construction site, Arch. Mwai responded by saying they have prepared a comprehensive site safety plan for the proposed site but highlighted use of PPEs, safety nets, set back, safety officer and site security.

MIN 5/19/05/2023: ANY OTHER BUSINESS AND ADJOURNMENT

The area chief requested the project proponent to give casual jobs to the local youths and women. He thanked the members of the community for making time to attend the meeting. The meeting ended at 1.03 pm with a word of prayer.

CONFIRMA	ATION OF THE MINUTES	
MINUTES P	REPARED BY THOMAS NGUGI,	
EIA LEAD E	EXPERT, NEMA REG. NO. 6679	
SIGNATURI	DATE 22/05/23	53
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ENVIRONMENTAL IMPACT ASSESSMENT STUDY FOR THE PROPOSED APARTMENTS DEVELOPMENT ON PLOT L.R. No. 1870/11/233 WESTLANDS, NAIROBI CITY COUNTY

PUBLIC MEETING ATTENDANCE RECORD

DATE 19 MAY 2023 TIME 10:00 AM VENUE PLOT L.R. NO. 1870/111/233 SCHOOLLANGUETAN

S/No.	S/No. FULL NAME	ORGANISATION REPRESENTED	MOBILE NUMBER	SIGNATURE
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ENVIRONMENTAL IMPACT ASSESSMENT STUDY FOR THE PROPOSED APARTMENTS DEVELOPMENT ON PLOT L.R. No. 1879/11/233 WESTLANDS, NAIROBI CITY COUNTY

PUBLIC MEETING ATTENDANCE RECORD

TIME 10 AM VENUE ROOPSED SITE

No.	S/No. FULL NAME	ORGANISATION REPRESENTED	MOBILE NUMBER	SIGNATURE
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	Robert Odhigmbo	Deep Sea Hunger	Deet Sea Hungeri 0743216915 2	· Se
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ENVIRONMENTAL IMPACT ASSESSMENT STUDY FOR THE PROPOSED APARTMENTS DEVELOPMENT ON PLOT L.R. No 1870/111/233 WESTLANDS, NAIROBI CITY COUNTY

PUBLIC PARTICIPATION QUESTIONNAIRE

The project proponent, The Islamic Foundation Nairobi Registered Trustees of P.O. BOX 30611 – 00100, Nairobi, proposes to construct construct two -18 and 24 floor residential cum commercial apartment blocks housing residential units of different typologies (1,2&3 bedroom), commercial spaces and associated works on plot L.R. No. 1870/11/233 along School lane, Westlands, Nairobi County. To achieve this goal, the proponent has contracted EIA experts to conduct an Environmental Impact Assessment (EIA) study which shall identify and mitigate impacts (environmental and social) arising from the proposed project. The aim of this questionnaire is to collect information from the stakeholders and affected parties. As a member of the local community, we seek for your views or comments on the proposed project. The information provided will strictly be used for the purpose of this EIA study.

T.	Do you think the proposed project will affect the normal land use in the area and if so, in what way?
	the tes-7 by 141hing down trees
	-7 Hove pollution from commuch on site
	-2. Devodition
2.	What are the expected positive environmental or social impacts of this proposed
	project in the area during construction and operation phases of the proposed project?
	- All gir is opportunities to me minited

3	What are the expected negative environmental or social impacts of this proposed project during its lifecycle?
	Maise pollution
	e fallma down the

4.	. What suggestions would you ma impacts that you have mentioned	oke to mitigate the negative social or environmental In question 3 above?
		noise telluhor by building
5.	what way?	our current operations/activities? (Yes/No). if yes, in
6.	What is the distance between project site? (Tick where applicable	your house/institution/premise and the proposed
1L		- 1 Km. (iii) Between 1 – 2km. (iv) Over 2 Km Km 2 Km
,	Do you welcome the proposed	project in the area? (YES/NO) If you No, explain
	Name:	Jaseph Mark Mikane
	Organisation Represented:	Doseph Muck Mutraye. Kladlands community.
	Contact: Mobile number/Email	12538372
	I.D. number	The AMAZINE STREET, AND
	Date:	19/10/2023
	Signature:	4-10

ENVIRONMENTAL IMPACT ASSESSMENT STUDY FOR THE PROPOSED APARTMENTS DEVELOPMENT ON PLOT L.R. No 1870/111/233 WESTLANDS, NAIROBI CITY COUNTY

PUBLIC PARTICIPATION QUESTIONNAIRE

The project proponent, The Islamic Foundation Nairobi Registered Trustees of P.O. BOX 30611 — 00100, Nairobi, proposes to construct construct two -18 and 24 floor residential cum commercial apartment blocks housing residential units of different typologies (1,2&3 bedroom), commercial spaces and associated works on plot L.R. No. 1870/111/233 along School lane, Westlands, Nairobi County. To achieve this goal, the proponent has contracted EIA experts to conduct an Environmental Impact Assessment (EIA) study which shall identify and mitigate impacts (environmental and social) arising from the proposed project. The aim of this questionnaire is to collect information from the stakeholders and affected parties. As a member of the local community, we seek for your views or comments on the proposed project. The information provided will strictly be used for the purpose of this EIA study.

1. Yes large lovices will ouse demage to the road or headers that will be duing some works 2. What are the expected positive environmental or social impacts of this proposed project in the area during construction and operation phases of the proposed project? - It will beost genery whole foreigness may invent - It will casale amployment to youths
2. What are the expected positive environmental or social impacts of this proposed project in the area during construction and operation phases of the proposed project? - It will beost granery whole forenext may invent - It will example employment to youths.
2. What are the expected positive environmental or social impacts of this proposed project in the area during construction and operation phases of the proposed project? - It will beost granery whole forenext may invent - It will example anyment to youth.
TE WILL CARAGE GENEROGRAPHENT FOR GOLDER

 What are the expected negative environmental or social impacts of this proposed project during its lifecycle?
Il may come noise colletion to other neighbour

 What suggestions would you m impacts that you have mentioned 	ake to mitigate the negative social or environmental d in question 3 above?
To pol more second	9 to worker the effects
***************************************	······
what way(your current operations/activities? (Yes/No). if yes, in
 What is the distance between project site? (Tick where applicab) 	your house/institution/premise and the proposed le)
7. Do you welcome the proposed	-1 Km, (iii) Between 1 - 2km, (iv) Over 2km project in the area? (NES/NO) If you No, explain
	······································
Name:	Robert odhiambo
Organisation Represented:	Me Marian Bu
Contact: Mobile number/Email	0743216915
I.D. number	420 486 82
Date:	19/08/2028
Signature:	1410x2023

ENVIRONMENTAL IMPACT ASSESSMENT STUDY FOR THE PROPOSED APARTMENTS DEVELOPMENT ON PLOT L.R. No 1870/111/233 WESTLANDS, NAIROBI CITY COUNTY

PUBLIC PARTICIPATION QUESTIONNAIRE

The project proponent, The Islamic Foundation Nairobi Registered Trustees of P.O. BOX 30611 – 00100, Nairobi, proposes to construct construct two -18 and 24 floor residential cum commercial apartment blocks housing residential units of different typologies (1,2&3 bedroom), commercial spaces and associated works on plot L.R. No. 1870/111/233 along School lane, Westlands, Nairobi County. To achieve this goal, the proponent has contracted EIA experts to conduct an Environmental Impact Assessment (EIA) study which shall identify and mitigate impacts (environmental and social) arising from the proposed project. The aim of this questionnaire is to collect information from the stakeholders and affected parties. As a member of the local community, we seek for your views or comments on the proposed project. The information provided will strictly be used for the purpose of this EIA study.

1	Do you think the proposed project will affect the normal land use in the area and if so, in what way?
	YES, BY CUTTING THE TREES
- 5	
2	What are the expected positive environmental or social impacts of this proposed project in the area during construction and operation phases of the proposed project?
	CREATING EMPLOYMENT FOR YOUTH

3.	what are the expected negative environmental or social impacts of this proposed project during its lifecycle?
	DESTRAYING OF ROADS / AN-
	A

:4.	 What suggestions would you m impacts that you have mentioned 	ake to mitigate the negative social or environmenta d in question 3 above?
	EMPLOY OF	EXPERT OFFICERS TO
5.	what way!	your current operations/activities? (Yes/No). if yes, in

	project site? (Tick where applicab	your house/institution/premise and the proposed le) - 1 Km., (iii) Between 1 - 2km, (iv) Over 2 Km
7,	Do you welcome the proposed why?	project in the area? (YES/NO) If you No, explain
	***************************************	***************************************
	Name:	DIMAH AMGAYA
1	Organisation Represented:	
	Contact: Mobile number/Email	D728129877
	I.D. number	1-10-7
	Date:	6519271
	Date:	101-0-1
-	Signature:	19/05/23

ENVIRONMENTAL IMPACT ASSESSMENT STUDY FOR THE PROPOSED APARTMENTS DEVELOPMENT ON PLOT L.R. No 1870/111/233 WESTLANDS, NAIROBI CITY COUNTY

PUBLIC PARTICIPATION QUESTIONNAIRE

The project proponent, The Islamic Foundation Nairobi Registered Trustees of P.O. BOX 30611 – 00100, Nairobi, proposes to construct construct two -18 and 24 floor residential cum commercial apartment blocks housing residential units of different typologies (1,263 bedroom), commercial spaces and associated works on plot L.R. No. 1870/111/233 along School lane, Westlands, Nairobi County. To achieve this goal, the proponent has contracted EIA experts to conduct an Environmental Impact Assessment (EIA) study which shall identify and mitigate impacts (environmental and social) arising from the proposed project. The aim of this questionnaire is to collect information from the stakeholders and affected parties. As a member of the local community, we seek for your views or comments on the proposed project. The information provided will strictly be used for the purpose of this EIA study.

1.	Do you think the proposed project will affect the normal land use in the area and if so, in what way?
	By Cutting the trees
2.	What are the expected positive environmental or social impacts of this proposed project in the area during construction and operation phases of the proposed project?
	Creating Emphorment for Yourth's

3.	What are the expected negative environmental or social impacts of this proposed project during its lifecycle?
	It muy lows noise pullution / Accomplent

 What impac 	suggestions would you ma ts that you have mentioned	ake to mitigate the negative social or environmental I in question 3 above?
3	Employ some	official to chean on the
5. Will the	ne proposed project affect way?	your current operations/activities? (Yes/No). if yes, in

6. What project	is the distance between site? (Tick where applicab	your house/institution/premise and the proposed le)
i)Less than	100M, (ii) Between 100M	– 1 Km. (iii) Between 1 – 2km. (5v) Over 2 Km
7. Do yo why?	u welcome the proposed	project in the area? (YES/NO) If you No, explain
Name:		Christine Kartunge
Organi	sation Represented:	High-rudge/beep-seg
Contac	t: Mobile number/Email	
I.D. nur	mber	072848 4403
Date:	40000	13663651
		1915 12023
Signatu	re:	Christine

DEVELOPMENT ON PLOT L.R. No 1870/111/233 WESTLANDS, NAIROBI CITY COUNTY

PUBLIC PARTICIPATION QUESTIONNAIRE

The project proponent, The Islamic Foundation Nairobi Registered Trustees of P.O. BOX 30611 – 00100. Nairobi, proposes to construct construct two -18 and 24 floor residential cum commercial apartment blocks bousing residential units of different typologies (1,2&3 bedroom), commercial spaces and associated works on plot L.R. No. 1870/11/233 along School lane, Westlands, Nairobi County. To achieve this goal, the proponent has contracted EIA experts to conduct an Environmental Impact Assessment (EIA) study which shall identify and mitigate impacts (environmental and social) arising from the proposed project. The aim of this questionnaire is to collect information from the stakeholders and affected parties. As a member of the local community, we seek for your views or comments on the proposed project. The information provided will strictly be used for the purpose of this EIA study.

I,	Do you think the proposed project will affect the normal land use in the area and if so, in what way?
	Tes
2.	What are the expected positive environmental or social impacts of this proposed
	project in the area during construction and operation phases of the proposed project?
	-> More business apportunities
	-> Mare job opportunia

3.	What are the expected negative environmental or social impacts of this proposed project during its lifecycle?
	-Increased happic 5 Gover use of sewerage

 What suggestions would you m impacts that you have mentione 	nake to mitigate the negative social or environmental d in question 3 above?
Developer Involver	ment with eminment summanding
what way?	your current operations/activities? (Yes/No). if yes, in
	your house/institution/premise and the proposed le)
i)Less than 100M, (ii) Between 100M	– 1 Km. (iii) Between 1 – 2km. (iv) Over 2 Km
7. Do you welcome the proposed why?	project in the area? (YES/NO) If you No, explain

Name:	Majorie Falth Burgey
Organisation Represented:	heathards
Contact: Mobile number/Email	0742440964
I.D. number	
Date:	36234371
Signature:	1871 May 2023

PUBLIC PARTICIPATION QUESTIONNAIRE

The project proponent, The Islamic Foundation Nairobi Registered Trustees of P.O. BOX 30611 – 00100. Nairobi, proposes to construct construct two -18 and 24 floor residential cum commercial apartment blocks housing residential units of different typologies (1,263 bedroom), commercial spaces and associated works on plot L.R. No. 1870/111/233 along School lane, Westlands, Nairobi County. To achieve this goal, the proponent has contracted EIA experts to conduct an Environmental Impact Assessment (EIA) study which shall identify and mitigate impacts (environmental and social) arising from the proposed project. The aim of this questionnaire is to collect information from the stakeholders and affected parties. As a member of the local community, we seek for your views or comments on the proposed project. The information provided will strictly be used for the purpose of this EIA study.

1.	Do you think the proposed project will affect the normal land use in the area and if so, in what way?
	fes it inpowe the welfhood of the resident hing and the
2.	What are the expected positive environmental or social impacts of this proposed
	project in the area during construction and operation phases of the proposed project? - Employeed
3.	What are the expected negative environmental or social impacts of this proposed project cluring its lifecycle? — Notsy — Heavy Muchines interfered with the

impacts that you have mentic	make to mitigate the negative social or environmental oned in question 3 above? I neged 60 Placed Outlingue.

what make	ect your current operations/activities? (Yes/No). if yes, in
	en your house/institution/premise and the proposed
i)Less than 100M, (ii) Between 100	M – 1 Km. (iii) Between 1 – 2km. (iv) Over 2 Km
	ed project in the area? (XES/NO) If you No. explain

Name:	KIBET
Organisation Represented:	PARKLAND
Contact: Mobile number/Email	
I.D. number	2223232
Date:	
Signature:	Hombles

PUBLIC PARTICIPATION QUESTIONNAIRE

The project proponent, The Islamic Foundation Nairobi Registered Trustees of P.O. BOX 30611 – 00100. Nairobi, proposes to construct construct two +18 and 24 floor residential cum commercial apartment blocks housing residential units of different typologies (1,2&3 bedroom), commercial spaces and associated works on plot L.R. No. 1870/111/233 along School lane, Westlands, Nairobi County. To achieve this goal, the proponent has contracted EIA experts to conduct an Environmental Impact Assessment (EIA) study which shall identify and mitigate impacts (environmental and social) arising from the proposed project. The aim of this questionnaire is to collect information from the stakeholders and affected parties. As a member of the local community, we seek for your views or comments on the proposed project. The information provided will strictly be used for the purpose of this EIA study.

I.	Do you think the proposed project will affect the normal land use in the area and if so, in what way?
	Carriery down of trees

2	What are the expected positive environmental or social impacts of this proposed
	1 Cheering construction and operation phases of the proposed project?
	2. Great Smart Phose of Westland
	3.
3.	What are the expected negative environmental or social impacts of this proposed project during its lifecycle?
	hear traces will Grott

 What suggestions would you ma impacts that you have mentioned 	ake to mitigate the negative social or environmental I in question 3 above?
and the second s	ou to looper
what way?	your current operations/activities? (Yes/No), if yes, in
What is the distance between project site? (Tick where applicable)	your house/institution/premise and the proposed e)
7. Do you welcome the proposed	-1 Km, (iii) Between 1 – 2km, (iv) Over 2 Km project in the area? (YES/NO) If you No, explain
Commenty	tate employment in The
Name:	JOSEPH NOANA
Organisation Represented:	SUPPLIER AND DRIVER
Contact: Mobile number/Email	0725579702
I.D. number	20137889
Date:	18-19-512023
Signature:	Dont

PUBLIC PARTICIPATION QUESTIONNAIRE

The project proponent, The Islamic Foundation Nairobi Registered Trustees of P.O. BOX 30611 — 00100. Nairobi, proposes to construct construct two -18 and 24 floor residential cum commercial apartment blocks housing residential units of different typologies (1.2&3 bedroom), commercial spaces and associated works on plot L.R. No. 1870/11/233 along 5chool lane, Westlands, Nairobi County. To achieve this goal, the proponent has contracted EIA experts to conduct an Environmental Impact Assessment (EIA) study which shall identify and mitigate impacts (environmental and social) arising from the proposed project. The aim of this questionnaire is to collect information from the stakeholders and affected parties. As a member of the local community, we seek for your views or comments on the proposed project. The information provided will strictly be used for the purpose of this EIA study.

L	Do you think the proposed project will affect the normal land use in the area and if so, in what way?
	No.
3	***************************************
2.	What are the expected positive environmental or social impacts of this proposed
	project in the area during construction and operation phases of the proposed project?
	v Job appointmentes to one people of Wastlands

3.	What are the expected negative environmental or social impacts of this proposed project during its lifecycle?
	Now obligher trees

4.	What suggestions would you ma impacts that you have mentioned	ake to mitigate the negative social or environmental I in question 3 above?	
	To make dure ang dangers prom 1	my out construction blinders to provent	
5.	Will the proposed project affect y what way?	your current operations/activities? (Yes/No). if yes, in	
	1/0	***************************************	
6.	 What is the distance between your house/institution/premise and the proposed project site? (Tick where applicable) 		
i)L	ess than 100M, (ii) Between 100M	– 1 Km, (iii) Between 1 – 2km, (iv) Over 2 Km	
7.	Do you welcome the proposed project in the area? (YES/NO) If you No, explain		
	why?		
	Name:	Martin Makau	
	Organisation Represented:	Dealand rommunity	
	Contact: Mobile number/Email	0188116586	
	I.D. number	13421455	
	Date:	19/06/2025	
	Signature:	+ 12/	

PUBLIC PARTICIPATION QUESTIONNAIRE

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I.	Do you think the proposed project will affect the normal land use in the area and if so, in what way?
	mas by coming trees
	//////////////////////////////////////
2.	What are the expected positive environmental or social impacts of this proposed
	project in the area during construction and operation phases of the proposed project?

	Creebay Jobs.

3.	What are the expected negative environmental or social impacts of this proposed project cluring its lifecycle?
	Marchay Porse

4.	impacts that you have mentioned	
	Plant Other	trees

5.	Will the proposed project affect y what way?	your current operations/activities? (Yes/No). if yes, in
6.	What is the distance between project site? (Tick where applicable	your house/institution/premise and the proposed e)
i)b	ess than 100M, (ii) Between 100M -	- 1 Km, (iii) Between 1 – 2km, (iv) Over 2 Km
7.		project in the area? (YES/NO) If you No, explain

	Name:	JANE MUTIN
	Organisation Represented:	beep sen
	Contact: Mobile number/Email	
	I.D. number	0720007477
	Date:	26022537
	Signature:	19/05/2023
	OTTO CONTROL OF THE PARTY OF TH	-the

PUBLIC PARTICIPATION QUESTIONNAIRE

The project proponent, The Islamic Foundation Nairobi Registered Trustees of P.O. BOX 30611 – 00100. Nairobi, proposes to construct construct two -18 and 24 floor residential cum commercial apartment blocks housing residential units of different typologies (1.2&3 bedroom), commercial spaces and associated works on plot L.R. No. 1870/111/233 along School lane, Westlands, Nairobi County. To achieve this goal, the proponent has contracted EIA experts to conduct an Environmental Impact Assessment (EIA) study which shall identify and mitigate impacts (environmental and social) arising from the proposed project. The aim of this questionnaire is to collect information from the stakeholders and affected parties. As a member of the local community, we seek for your views or comments on the proposed project. The information provided will strictly be used for the purpose of this EIA study.

1,	Do you think the proposed project will affect the normal land use in the area and if so, in what way?
	There will be defended to make will
	be mitigated later by toplaceread of
	CUX Lees
2.	What are the expected positive environmental or social impacts of this proposed
	project in the area during construction and operation phases of the proposed project?
	- Development of Newhenhall houses which
	- Cheahan of warm to youth
	Expery tendering Companie Individual to
3.	What are the expected negative environmental or social impacts of this proposed project during its lifecycle?
	Phon dong Construction, House, to Asi

impacts that you have mentio	make to mitigate the negative social or environmental ned in question 3 above?		
to Avail pay	warring the day		
- Inchare Servi	by periond in Satety		
5. Will the proposed project affe	ce after the tompte him of the prodect your current operations/activities? (Yes/No). if yes, in		
what way? Madax	Mes & regulation will be		
elect d	wing Contraction		
What is the distance between	What is the distance between your house/institution/premise and the proposed project site? (Tick where applicable)		
i)Less than 100M, (ii) Between 100	M – I Km. (iii) Between I – 2km. (iv) Over 2 Km		
why? By yes	ed project in the area? (YES/NO) If you No, explain		
physiber, mason	employment to youth, eighter		
Name:			
Organisation Represented:	KLAMIC FOUNDATION		
Contact: Mobile number/Email	D721620119		
I.D. number	22397622.		
Date:	19/01/2022		
Signature:	An		

DEVELOPMENT ON PLOT L.R. No 1870/111/233 WESTLANDS, NAIROBI CITY COUNTY

PUBLIC PARTICIPATION QUESTIONNAIRE

The project proponent, The Islamic Foundation Nairobi Registered Trustees of P.O. BOX 30611 – 00100. Nairobi, proposes to construct construct two -18 and 24 floor residential cum commercial apartment blocks housing residential units of different typologies (1,2&3 bedroom), commercial spaces and associated works on plot L.R. No. 1870/111/233 along School lane, Westlands, Nairobi County. To achieve this goal, the proponent has contracted EIA experts to conduct an Environmental Impact Assessment (EIA) study which shall identify and mitigate impacts (environmental and social) arising from the proposed project. The aim of this questionnaire is to collect information from the stakeholders and affected parties. As a member of the local community, we seek for your views or comments on the proposed project. The information provided will strictly be used for the purpose of this EIA study.

1.	Do you think the proposed project will affect the normal land use in the area and if so, in what way?

	Her les becouse la trees in the area where the
2.	Construction will be triving flow will be out Wall will Course Soil Brosion What are the expected positive environmental or social impacts of this proposed
	project in the area during construction and operation phases of the proposed project?
	V. Crentes july employment V. Sources of incorne to the society
3.	What are the expected negative environmental or social impacts of this proposed project during its lifecycle?
	traffic join becouse of transportation of row monterials

 What suggestions would you ma impacts that you have mentioned 	ake to mitigate the negative social or environmental I in question 3 above?
V Bond Signs Should	be persent in the exer or. I to some bol that Valuation
 Will the proposed project affect what way? 	your current operations/activities? (Yes(Mo), if yes, in
project site? (Tick where applicab	your house/institution/premise and the proposed le) - 1 Km. (iii) Between 1 – 2km. (yy/Over 2 Km
Their time territ, (ii) between toom	- 1 Kill, (iii) between 1 - 2kill, by Over 2 Kill
why? Tes becomes it	project in the area? (YES/NO) If you No, explain
Name:	OTIENO DEMO
Organisation Represented:	WESTLANDS
Contact: Mobile number/Email	0714799998
I.D. number	39110438
Date:	19/05/2023
Signature:	Daglet

DEVELOPMENT ON PLOT LR. No 1870/111/233 WESTLANDS, NAIROBI CITY COUNTY

PUBLIC PARTICIPATION QUESTIONNAIRE

The project proponent, The Islamic Foundation Nairobi Registered Trustees of P.O. BOX 30611 – 00100. Nairobi, proposes to construct construct two -18 and 24 floor residential cum commercial apartment blocks housing residential units of different typologies (1,2&3 bedroom), commercial spaces and associated works on plot L.R. No. 1870/111/233 along 5chool lane, Westlands, Nairobi County. To achieve this goal, the proponent has contracted EIA experts to conduct an Environmental Impact Assessment (EIA) study which shall identify and mitigate impacts (environmental and social) arising from the proposed project. The aim of this questionnaire is to collect information from the stakeholders and affected parties. As a member of the local community, we seek for your views or comments on the proposed project. The information provided will strictly be used for the purpose of this EIA study.

1.	Do you think the proposed project will affect the normal land use in the area and if so, in what way?
	Yes, the rormal land up will be affected
	thing the site operations and after
	The Sold preject done. The environment be byprour
2.	What are the expected positive environmental or social impacts of this proposed
	project in the area during construction and operation phases of the proposed project?
	- Job Orations
	- Improved transport and Inaustructures
	- Business Expandens - Improved transport and Inforstructures - Development Despects
3.	What are the expected negative environmental or social impacts of this proposed
	Project cluring its likecycle? - Detrugtion & note pellution - Are Pollution
	-Dobrezhogen

impacts that you have men Profes. W	ou make to mitigate the negative social or environmental tioned in question 3 above? Se of Silena Machine and wally Machines.
Will the proposed project a	iffect your current operations/activities? (Yes/No), if yes, in
what way? Se of	ment and transportation
project site? (Tick where app	ween your house/institution/premise and the proposed
Less than 100M, (ii) Between 1	00M - 1Km. (iii) Between 1 - 2km. (iv) Over 2 Km
why?	soled project in the area? (YES/NO) If you No, explain
Name:	Mx0zuc Marce
Organisation Represented:	MARTIN MAKATEMBO
	Compunity Westlands
Contact: Mobile number/Em	09900 x0539
I.D. number	33086489
Date:	
Signature:	191K-Mar 3083
-Brander	(Wanda ale

PUBLIC PARTICIPATION QUESTIONNAIRE

The project proponent, The Islamic Foundation Nairobi Registered Trustees of P.O. BOX 30611 – 00100, Nairobi, proposes to construct construct two -18 and 24 floor residential cum commercial apartment blocks housing residential units of different typologies (1,263 bedroom), commercial spaces and associated works on plot L.R. No. 1870/111/233 along School lane, Westlands, Nairobi County. To achieve this goal, the proponent has contracted EIA experts to conduct an Environmental Impact Assessment (EIA) study which shall identify and mitigate impacts (environmental and social) arising from the proposed project. The aim of this questionnaire is to collect information from the stakeholders and affected parties. As a member of the local community, we seek for your views or comments on the proposed project. The information provided will strictly be used for the purpose of this EIA study.

1.	Do you think the proposed project will affect the normal land use in the area and if so, in what way?
	decrease of vegetation

2,	What are the expected positive environmental or social impacts of this proposed
	project in the area during construction and operation phases of the proposed project?
	Creation los and business
3,	What are the expected negative environmental or social impacts of this proposed
	project chiring its lifecycle? Congest in J Traffic Ceruser System Abir Policeton, Noice
	Cewer System, Abi Politica, Noice

4.	impacts that you have mentioned Have Traffic Ma	drilling of bone holes and	
5.	Will the proposed project affect y	our current operations/activities? (Yes/No), if yes, in	
	what way?		

6.	. What is the distance between your house/institution/premise and the proposed project site? (Tick-where applicable)		
i)L	ess than 100M, (ii) Retween 100M -	-1 Km. (iii) Between 1 – 2km. (iv) Over 2 Km	
7.	Do you welcome the proposed project in the area? (YES/NO) If you No, explain why?		
	and improve to face of westerds.		
	Name:	John Kingsin Gatures	
	Organisation Represented:	John Kingsin Galary Westlands July County Peace Committee	
1	Contact: Mobile number/Email	8727746426	
	I.D. number	7669637	
	Date:	19.05.2023	
	Signature:	1980	
100			

PUBLIC PARTICIPATION QUESTIONNAIRE

The project proponent, The Islamic Foundation Nairobi Registered Trustees of P.O. BOX 30611 – 00100. Nairobi, proposes to construct construct two -18 and 24 floor residential cum commercial apartment blocks housing residential units of different typologies (1,2&3 bectroom), commercial spaces and associated works on plot L.R. No. 1870/111/233 along School lane, Westlands, Nairobi County. To achieve this goal, the proponent has contracted EIA experts to conduct an Environmental Impact Assessment (EIA) study which shall identify and mitigate impacts (environmental and social) arising from the proposed project. The aim of this questionnaire is to collect information from the stakeholders and affected parties. As a member of the local community, we seek for your views or comments on the proposed project. The information provided will strictly be used for the purpose of this EIA study.

L	Do you think the proposed project will affect the normal land use in the area and if so, in what way?
	NO. It will not a great the normal land use intact the
	best, 11 will create jobs to the Community and Improve the
	ara:
2.	What are the expected positive environmental or social impacts of this proposed
	project in the area during construction and operation phases of the proposed project?
	1: IT will create job opportunities 2: It will make the area better.
	3. It will improve the Community and make
	He over better for bring. H: It will Bring muc bouses to live in:
3.	What are the expected negative environmental or social impacts of this proposed project during its lifecycle?
	The only negative impad of this project is that the heavy
	De voud lise in the areas

impacts that you have mentioned I. May Suggest that the environment. The trees - THE patholes Caused be sented servered ea	e larries Obstinic The Stylety of the Mad will be Cut Should be teplianted open the Construct by the heavy Commercial Metricles of time and maintained,		
what way?	Will the proposed project affect your current operations/activities? (Yes/No), if yes, in what way?		
No '	***************************************		
What is the distance between project site? (Tick where applicable)	your house/institution/premise and the proposed le)		
i)Less than 100M, (ii) Between 100M	- 1 Km. (iii) Between 1 - 2km. (iv) Over 2 Km		
	project in the area? (YES/NO) If you No, explain		
Name: OHGOHOO OGISA	ONGONDO PATRICIC OGISA		
Organisation Represented:			
Contact: Mobile number/Email	0701539536		
I.D. number	24509826		
Date:	10/00/000		

Signature:

PUBLIC PARTICIPATION QUESTIONNAIRE

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1.	Do you think the proposed project will affect the normal land use in the area and if so, in what way? LITH ust gffest, WM Creatly development -
2.	What are the expected positive environmental or social impacts of this proposed
	project in the area during construction and operation phases of the proposed project? [1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2
3.	What are the expected negative environmental or social impacts of this proposed project chiring its lifecycle? What was a social impacts of this proposed project chiring its lifecycle? What was a social impacts of this proposed project chiring its lifecycle? What was a social impacts of this proposed project chiring its lifecycle?

	impacts that you have mentioned	ke to mitigate the negative social or environmental in question 3 above? 10 10 10 10 10 10 10 10 10 10 10 10 10 1	
5.	Will the proposed project affect y what way?	our current operations/activities? (Yes/No). if yes, in	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
6.	. What is the distance between your house/institution/premise and the proposed project site? (Tick where applicable)		
i)Li	ess than 100M, (ii) Between 100M	- 1 Km. (iii) Between 1 – 2km. (iv) Over 2 Km	
7.	why?	project in the area? (YES/NO) If you No. explain	
Ī	Name:	George lantes	
	Organisation Represented:	Deep-Les elde	
	Contact: Mobile number/Email	0703701644	
	I.D. number	1343 893.7	
	Date:	19/05/23	
	Signature:	135	

DEVELOPMENT ON PLOT L.R. No 1870/111/233 WESTLANDS, NAIROBI CITY COUNTY

PUBLIC PARTICIPATION QUESTIONNAIRE

The project proponent, The Islamic Foundation Nairobi Registered Trustees of P.O. BOX 30611 – 00100, Nairobi, proposes to construct construct two -18 and 24 floor residential cum commercial apartment blocks housing residential units of different typologies (1,2&3 bedroom), commercial spaces and associated works on plot L.R. No. 1870/111/233 along School lane, Westlands, Nairobi County. To achieve this goal, the proponent has contracted EIA experts to conduct an Environmental Impact Assessment (EIA) study which shall identify and mitigate impacts (environmental and social) arising from the proposed project. The aim of this questionnaire is to collect information from the stakeholders and affected parties. As a member of the local community, we seek for your views or comments on the proposed project. The Information provided will strictly be used for the purpose of this EIA study.

1.	Do you think the proposed project will affect the normal land use in the area and if so, in what way?
	YES Because it will being noise and the
	trees culting obour in the arrea

2.	What are the expected positive environmental or social impacts of this proposed
	project in the area during construction and operation phases of the proposed project?
-	Tob Craction
	Paramus
-	- Increase of Sheller of people around

3.	What are the expected negative environmental or social impacts of this proposed
-	project during its lifecycle?
111	fulling Disjects.

-	impacts that you have mentioned Use mane hines - Plant trees to	That one less notices	
5.	sobat unio?	your current operations/activities? (Yes/No), if yes, in	
6.	What is the distance between project site? (Tick where applicable)	your house/institution/premise and the proposed le)	
i)b	ess than 100M, (ii) Between 100M	–1 Km, (iii) Between 1 – 2km, (iv) Over 2 Km	
7.	Do you welcome the proposed project in the area? (YES/NO) If you No. explain why? YES - H'S going to Create more Tolos. to the people in the area.		
-	Name:	CALEB IFEDHA	
-	Organisation Represented:		
	Contact: Mobile number/Email	0728082300	
	I.D. number	24330824	
1	Date:	19/05/2023	
	Signature:	Catolo	

PUBLIC PARTICIPATION QUESTIONNAIRE

The project proponent, The Islamic Foundation Nairobi Registered Trustees of P.O. BOX 30611 – 00100. Nairobi, proposes to construct construct two -18 and 24 floor residential cum commercial apartment blocks housing residential units of different typologies (1,2&3 bedroom), commercial spaces and associated works on plot L.R. No. 1870/111/233 along School lane, Westlands, Nairobi County. To achieve this goal, the proponent has contracted EIA experts to concluct an Environmental Impact Assessment (EIA) study which shall identify and mitigate impacts (environmental and social) arising from the proposed project. The aim of this questionnaire is to collect information from the stakeholders and affected parties. As a member of the local community, we seek for your views or comments on the proposed project. The information provided will strictly be used for the purpose of this EIA study.

1,	Do you think the proposed project will affect the normal land use in the area and if so, in what way?
	Yes, it will promot Pronounce growth in the
	area through tob created and growth of
	business across the ava-
2.	What are the expected positive environmental or social impacts of this proposed
	project in the area during construction and operation phases of the proposed project?
	le well encourage good living Stander of to people wing around by swing thou a place to get their ability bread.
3.	What are the expected negative environmental or social impacts of this proposed project during its lifecycle? If not well managed will affect the Draman Course damage of some to be any fucks
	time of construction due to heavy trucks
	plying or delivery of ancterialt

4.	What suggestions would you ma impacts that you have mentioned	ke to mitigate the negative social or environmental in question 3 above?
	Constructing good	l drainage when
5.	Will the proposed project affect y	y fecuning Joh here I the Handards of Guer
6.	What is the distance between project site? (Tick where applicable	your house/institution/premise and the proposed e)
itle	ess than 100M, (ii) Between 100M -	- 1 Km, (iii) Between 1 – 2km, (iv) Over Z Km
7.		project in the area? (YES/NO) If you No, explain
Ġ	Name:	Emmanuel Muruga
	Organisation Represented:	WESTLINEDS
	Contact: Mobile number/Email	0703993597
	I.D. number	The state of the s
	Date:	31926895
100	Signature:	AN -

DEVELOPMENT ON PLOT L.R. No 1870/111/233 WESTLANDS, NAIROBI CITY COUNTY

PUBLIC PARTICIPATION QUESTIONNAIRE

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1-	Do you think the proposed project will affect the normal land use in the area and if so, in what way?
	Mr It Cault

2.	What are the expected positive environmental or social impacts of this proposed
	project in the area during construction and operation phases of the proposed project?
	l.JebdPAterities
	.3:

3.	What are the expected negative environmental or social impacts of this proposed project during its lifecycle?
	1: Naise Pollotion
	.4:

impacts that you have mentio	make to mitigate the negative social or environmental ned in question 3 above?
	which will not have Noise
	35 hours are in there houses

rehat wear?	ect your current operations/activities? (Yes/No). if yes, in
***************************************	***************************************
 What is the distance betwee project site? (Tick where applied) 	en your house/institution/premise and the proposed rable)
i)Less than 100M. (ii) Between 100	M - 1 Km. (iii) Between 1 - 2km. (iv) Over 2 Km
	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
7. Do you welcome the propos	ed project in the area? (YES/NO) If you No, explain
why? YES	
Name:	PAUL MUSICIAN
Organisation Represented:	PAUL MUSYOMA
Contact: Mobile number/Email	0790737085
I.D. number	344590 22
Date:	
Signature:	19 05 72023
ognature:	Q

DEVELOPMENT ON PLOT LR. No 1870/111/233 WESTLANDS, NAIROBI CITY COUNTY

PUBLIC PARTICIPATION QUESTIONNAIRE

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The anormation provided will strictly be used for the purpose of this EIA study,
Do you think the proposed project will affect the normal land use in the area and if so in what way? 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
What are the expected positive environmental or social impacts of this proposed
project in the area during construction and operation phases of the proposed project?
Brigs Doubne + the Could good comit
prospore paraing & SOTHWHAN of the
What are the expected negative environmental or social impacts of this proposed project charing its lifecycle?
There was be now, fully fithe the property of

4.	What suggestions would you ma impacts that you have mentioned	ke to mitigate the negative social or environmental in question 3 above?
	mesting to prevent	Northine Cheen your Chatring of Dougle letergardon or soing
5.	what way?	our current operations/activities? (Yes/No), if yes, in
6.	What is the distance between project site? (Tick where applicable	your house/institution/premise and the proposed e)
i)L	ess than 100M, (ii) Between 100M -	-1 Km, (iii) Between 1 – 2km, (iv) Over 2 Km
7,	Do you welcome the proposed why? 195 10 107	project in the area? (YES/NO) If you No, explain not below to be age good.
1	Name:	DADID OM ESH OMACH
	Organisation Represented:	- University of the second
	Contact: Mobile number/Email	0722597324
	I.D. number	25241291
1	Date:	19/06/2023
	Signature:	TAN

PUBLIC PARTICIPATION QUESTIONNAIRE

The project proponent, The Islamic Foundation Nairobi Registered Trustees of P.O. BOX 30611 – 00100. Nairobi, proposes to construct construct two -18 and 24 floor residential cum commercial apartment blocks housing residential units of different typologies (1,263 bedroom), commercial spaces and associated works on plot L.R. No. 1870/11/233 along School lane, Westlands, Nairobi County. To achieve this goal, the proponent has contracted EIA experts to conduct an Environmental Impact Assessment (EIA) study which shall identify and mitigate impacts (environmental and social) arising from the proposed project. The aim of this questionnaire is to collect information from the stakeholders and affected parties. As a member of the local community, we seek for your views or comments on the proposed project. The information provided will strictly be used for the purpose of this EIA study.

1.	Do you think the proposed project will affect the normal land use in the area and if so, in what way?
	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
2.	What are the expected positive environmental or social impacts of this proposed
	project in the area during construction and operation phases of the proposed project?
	we wis got different Jobs

3.	What are the expected negative environmental or social impacts of this proposed
	project during its lifecycle?
	Culling older trees
	20

 What suggestions would you make impacts that you have mentioned 	ke to mitigate the negative social or environmental in question 3 above?
	Plant hew trees
3+4++++×××4+++>+>+++++++++++++++++++++++	
what way?	our current operations/activities? (Yes/No). if yes, in
***************************************	***************************************
 What is the distance between y project site? (Tick where applicable) 	your house/institution/premise and the proposed
i)Less than 100M, (ii) Between 100M -	1 Km, (iii) Between 1 – 2km, (iv) Over 2 Km
 Do you welcome the proposed p why? 	project in the area? (YES/NO) If you No, explain
Name:	JOHN MATOLO
Organisation Represented:	WG19 LANGS
Contact: Mobile number/Email	0757251259
I.D. number	
Date:	1915/023
Signature:	17131023

DEVELOPMENT ON PLOT LR. No 1870/111/233 WESTLANDS, NAIROBI CITY COUNTY

PUBLIC PARTICIPATION QUESTIONNAIRE

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1.	Do you think the proposed project will affect the normal land use in the area and if so, in what way?
	Hes, by cutting the tooks trees

2.	What are the expected positive environmental or social impacts of this proposed
	project in the area during construction and operation phases of the proposed project?
	Creation of jobs
	Revenues

3.	What are the expected negative environmental or social impacts of this proposed project cluring its lifecycle?
	Asset thances trafic Jam
	(40044444444444444444444444444444444444

4.	impacts that you have mentioned	nke to mitigate the negative social or environmental in question 3 above?	
	Use less power	ded Markines	
5.	what way?	your current operations/activities? (Yes/No). if yes, in	

6.	What is the distance between project site? (Tick where applicable	your house/institution/premise and the proposed e)	
1)1,	ess than 100M, (ii) Between 100M -	- 1 Km, (iii) Between 1 − 2km, (%) Over 2 Km	
7.	Do you welcome the proposed project in the area? (YES/NO) If you No, explain		
	why? Tes		

	Name:	JACINTA MIER.	
	Organisation Represented:	DEEP SEN	
	Contact: Mobile number/Email	DCC 384	
	A MANAGEMENT OF THE PROPERTY O	1070707020C	
	I.D. number	6727560395	
		9536147	
The state of the s	I.D. number		

PUBLIC PARTICIPATION QUESTIONNAIRE

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1.	Do you think the proposed project will affect the normal land use in the area and if so, in what way?
	To:
	- More will be demillabled and also trees will be
2.	load had hun will got when transporting making impacts of this proposed
	project in the area during construction and operation phases of the proposed project?
	Improvement in the distingue and strugge system
3.	What are the expected negative environmental or social impacts of this proposed
	project cluring its lifecycle?
	Lathing days of HPRU
	- Lyside amortions
	v Nova pollubor

impacts that you have n	you make to mitigate the negative social or environmental entioned in question 3 above? Alls 1917 9 (Markman) of Mr. siana should be planted to be a first or to be down during the same of the same
what way?	et affect your current operations/activities? (Yes/No), if yes, in
What is the distance to project site? (Tick where	etween your house/institution/premise and the proposed applicable)
i)Less than 100M, (ii) Betwee Behoten (1907) -	n 100M – 1 Km, (iii) Between 1 – 2km, (iv) Over 2 Km
why? The	ropoted project in the area? (YES/NO) If you No, explain will bring avelogrand to the area
W0.70	
Name:	Linn
Organisation Represented	MITIKE NIEB.
Contact: Mobile number/	Email 6719549658 Worling @ gmailiren
I.D. number	38701737
Date:	ac/9/05/8023-
Signature:	(b)-de