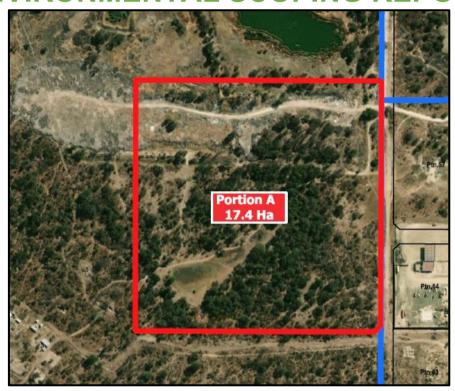
ENVIRONMENTAL IMPACT ASSESSMENT (EIA) FOR THE PROPOSED SUBDIVISION OF THE KATIMA MULILO TOWNLAND NO.1328 INTO PORTION "A" AND THE REMINDER & REZONING OF PORTION "A" FROM "UNDETERMINED" TO "GOVERNMENT" TO ENABLE THE CONSTRUCTION OF THE SPORT COMPLEX AND RELATED PUBLIC INFRASTRUCTURE

ENVIRONMENTAL SCOPING REPORT



Prepared for:

Ministry of Education, Innovation, Youth, Sport, Arts and Culture
Private Bag 13391
Windhoek
Namibia

Prepared by:



JULY 2025

DOCUMENT DESCRIPTION

Project Title: Proposed Subdivision of the Katima Mulilo Townland No.1328 into

Portion "A" and the Reminder & Rezoning of Portion "A" from "Undetermined" to "Government" to enable the Construction of the

Sport Complex and related Public Infrastructure

Client: Ministry of Education, Innovation, Youth, Sport, Arts and Culture

Private Bag 13391

Windhoek

Namibia

Project location: Katima Mulilo

Zambezi Region

Namibia

Project title: Environmental Scoping Report

EAP: Green Gain Consultants cc

J. K Amushila

Application: APP006104

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List of Abbreviations and Acronyms

BID: Background Information Document

EA: Environmental Assessment

EAP: Environmental Assessment Practitioner

ECC Environmental Clearance Certificate

EIA: Environmental Impact Assessment

EMA: Environmental Management Act

EMP Environmental Management Plan

ESR: Environmental Scoping Report

GG: Government Gazette

GN: Government Notice

I&APs: Interested and Affected Parties

MEFT: Ministry of Environment, Forestry and Tourism

PPE: Personal Protective Equipment

1. Introduction and Background

1.1 Introduction

Katima Mulilo Town Council has donated a 17-hectare plot to the Ministry of Sport, Youth and National Service (now falling under the Ministry of Education, Innovation, Youth, Sport, Arts and Culture as a directorate) for the development of an international sports stadium. The proposed development site is still zoned undetermined and is part of the Remainder of Katima Mulilo Town and Townlands No.1328. In terms of the Local Authorities Act, 1992 (Act No. 23 of 1992), and the Urban and Regional Planning Act, 2018, statutory planning procedures need to be followed to create a dedicated parcel of land for the envisaged sport stadium. The town planning procedures will involve the Subdivision of the Remainder of Katima Mulilo Town and Townlands No.1328 into Portion "A" and the Remainder, as well as the Rezoning of Portion "A" from "Undetermined" to "Government".

The envisaged development will be comprising of stadium facilities, training fields, recreation areas, administrative blocks, and supporting utilities. The aim is to support government efforts in decentralizing sport development, empowering youth, and fostering inclusive socioeconomic development in the Zambezi Region.

Green Gain Environmental Consultants cc has been appointed as an independent Environmental Assessment Practitioner (EAP) to conduct the required Environmental Impact Assessment (EIA) study and apply for the ECC from the Ministry of Environment, Forestry, and Tourism (MEFT).

This EIA study was carried out in accordance with the Environmental Management Act (No. 7 of 2007) and it's EIA Regulations (GG No. 4878 GN No. 30). It indicates the description of the environment that may be affected by the activity and the manner in which the activity may affect the environment. Information relating to the receiving environment and its social surroundings has been sourced through the following methods.

- Site visits to collect primary data.
- Gathering existing information relating to similar developments and issues.
- Discussions, meetings, and site visits with authorities.
- Opinions and concerns raised by I&AP's and stakeholders; and
- Ecological/hydrological surveys and qualified opinions.

1.2 Terms of Reference

The Terms of Reference for the proposed project are based on the requirements set out by the Environmental Management Act (No. 7 of 2007) and it's EIA Regulations (GN No 30 of 2012). Details of the proposed infrastructure design and layout are not available at this stage; hence the EIA study only focuses on the proposed subdivision, rezoning of Portion A from undetermined to Government and suitability of the envisaged sport complex.

The process covered the following steps, which are reported in this scoping report as follows:

- Provide a detailed description of the proposed activity.
- Identify all policies, legislation and guidelines that are relevant to the proposed development.
- Identify existing environmental (both ecological and socio-economic) conditions of the receiving environment in order to identify potentially sensitive areas.
- Evaluate the need and desirability of the proposed development.
- Notify and consult I&AP's regarding the proposed development and provide them with reasonable opportunity to participate during the process.
- Identify potential environmental impacts the proposed development will have on the natural & urban environment and assess their significance; and
- Outline management and mitigation measures in an EMP to minimize and/or mitigate potentially negative impacts, which cannot be avoided.

This scoping report will be submitted to the Environmental Commissioner, as required by Section 27(3) of the Environment Management Act (No 7 of 2007).

The following is vital as part of the scope of work:

a) Environmental impacts (biophysical)

- Impact on flora and fauna
- Impact on surface water and ground water
- Impact on land capability
- Solid waste disposal
- Impact of the proposed and required infrastructure and services.

b) Socio-economic impacts

- Impact on traffic
- Impact on local economy
- Impact on existing land uses

1.3 Project team

The project involves the following teams

Developer/Proponent	Ministry of Education, Innovation, Youth, Sport, Arts and Culture					
	Private Bag 13391					
	Windhoek					
	Namibia					
Local Authority	Katima Mulilo Town Council					
	Mr. Rafael Liswaniso					
	Chief Executive Officer					
Town Planner	TOYA Urban Planning Consultant Mr. Simon Shinguto					
	Cell: +264 853 099 839					
	Email: sshinguto@gmail.com					
Environmental Assessment	Green Gain Consultants cc					
Practitioner	Office Erf 2696, Joe Davis, Narraville, Walvis Bay					
	Email: info@greengain.com.na					
	Linaii. iniologicengaiii.com.na					

2. LEGAL FRAMEWORK

2.1 Applicable legislations

In addition, the development of this kind is guided by a sound legislative and policy framework. This section provides a review of applicable and relevant Namibian legislation, policies, and guidelines. This review serves to inform the Developer of the requirements and expectations, as laid out in terms of these instruments, to be fulfilled before the proposed project may commence. The findings of the abovementioned review in preparation of this scoping report for the proposed development are summarised below.

Table 1: Namibian Legislation relevant to the project

	5.1 (5.1)	
Legislation/ Policy/ Guideline	Relevant Provisions	Implications for this project
The Constitution of the Republic of Namibia (1990)	The article 95(i) recites: "The State shall actively promote maintenance of ecosystems, essential ecological processes and biological diversity of Namibia and utilization of living natural resources on a sustainable basis for the benefit of all Namibians, both present and future" Article 91(c) recites: "The functions of the Ombudsman shall be defined and prescribed by an Act of Parliament and shall include the following the duty to investigate complaints concerning the over-utilization of living natural resources, the irrational exploitation of non-renewable resources, the degradation and destruction of ecosystems and failure to protect the beauty and character of Namibia".	Through the implementation of the EMP, the proponent shall be advocating for sound environmental management as set out in the Constitution.
Environmental Management Act (No. 7 of 2007) Environmental Impact	 Requires that projects with significant environmental impact are subject to an environmental assessment process (Section 27). Details principles which are to guide all EAs. Details requirements for public 	The EMA and its regulations should inform and guide this EA process.
Assessment Regulations GN 28-30 (GG 4878)	consultation within a given environmental assessment process (GN 30 S21). Details the requirements for what should be included in a Scoping Report (GN 30 S8) and an Assessment Report (GN 30 S15).	
The Regional Councils Act (No. 22 of 1992)	• This Act sets out the conditions under which Regional Councils must be elected and administer each delineated region. From a land use and project planning point of view, their duties include, as described in section 28 "to	The Zambezi Regional Council should provide oversight role to the KMTC

	undertake the planning of the development of the region for which it has been established with a view to physical, social and economic characteristics, urbanisation patterns, natural resources, infrastructure, land utilisation pattern and sensitivity of the natural environment" The main objective of this Act is to initiate, supervise, manage and evaluate development.	
Labour Act (No. 11 of 2007)	 Details various requirements regarding health and safety of labourers Details requirements regarding minimum wage and working conditions. 	The Developer should ensure that all contractors involved during the construction, operation and maintenance of the proposed project comply with the provisions of these legal instruments.
Public Health Act (No. 1 of 2015)	Provide a framework for a structured uniform public and environmental health system in Namibia; and to provide for incidental matters. Part 9 prescribes procedures for Integrated Waste Management, while Part 10 calls for the prevention of creating Health Nuisances.	The developer should ensure compliance with the provisions of this legal instrument. A general obligation for the contractor not to pollute the environment
National Heritage Act (No. 27 of 2004)	Section 48(1) states that "A person may apply to the [National Heritage] Council [NHC] for a permit to carry out works or activities in relation to a protected place or protected item".	Any heritage resources discovered during construction and operations requires a permit from the NHC for relocation.
Water Resources Management Act (No. 24 of 2004)	 Provides provision for the control, conservation and use of water for domestic, agricultural, urban and industrial purposes. Deals with provision of license/permit that are required for abstracting, using water and discharge of effluent. 	The protection of groundwater resources should be a priority. Obligation not to pollute the environment and soil.
Townships and Division of Land Ordinance (No. 11 of 1963)	Details the functions of the Township Board including what they consider when receiving an application for Township Establishment (S3).	The proposed layout and land uses should be informed by environmental factors such as water supply, soil etc. as laid out in Section 3.
Road Ordinance 1972 (No. 17 0f 1972)	 Width of proclaimed roads and road reserve boundaries (S3.1) Control of traffic on urban trunk and main roads (S27.1) Rails, tracks, bridges, wires, cables, subways or culverts across or under proclaimed roads (S36.1) Infringements and obstructions on and interference with 	The limitations applicable on RA proclaimed roads should inform the proposed layout and zonings where applicable. Access from B1 road should be approved by the Roads Authority The following restrictions must apply;
	proclaimed roads. (S37.1)	 100m from the main road for main building

	Distance from proclaimed roads	30m from the road for
	at which fences are erected (S38)	any structure
Pollution Control and Waste Management Bill	 To prevent and regulate the discharge of pollutants to the air, water and land; To furthermore regulate noise, dust and odour pollution; and to establish a system of waste planning and management 	The Developer should ensure compliance with the provisions of these legal instrument.
Soil conservation Act 76 of 1969	The objectives of the Soil Conservation Act 76, 1969 are to make provision for the combating and prevention of soil erosion, and the conservation, protection, and improvement of the soil, the vegetation, and the sources and resources of the water supplies. Part II deals with soil conservation works and it further states that in section 4(1). The Minister may by means of a direct order the owner of land to construct the soil conservation works referred to in such direction either on land belonging to such owner or on land belonging to another person, in such manner and within such period as may be mentioned in such direction, if the Minister is of the opinion that the construction of such soil conservation works is necessary to achieve any object of this Act in respect of the land belonging to such owner.	Prior to the construction of the below ground pipeline and ground level reservoir, geotechnical investigations should be carried out to determine the engineering properties of the soil(s) and/or rock(s) underlying the sites, including the identification of potential problem soils and the presence of an underground water table.
National Labour Act 11 of 2007	 The objectives of the National Labour Act are: To establish a comprehensive labour law for all employers and employees; to entrench fundamental labour rights and protections. Regulate basic terms and conditions of employment. Ensure the health, safety, and welfare of employees and protect employees from unfair labour practices. To regulate the registration of trade unions and employers' organization and regulate collective labour relations. To provide systematic prevention and resolution of labour disputes. 	The Proponent, Contractor, Subcontractor shall all be guided by this Act when recruiting or handling employment-related issues. The Contractor must adhere to the minimum workplace safety standards such as all employees must be provided with appropriate Personal Protective Equipment (PPE).

Some of the notable Sections under this Act are:

Health and Safety Procedures Section 17 (1) The employer shall prepare any health and safety procedure referred to in subregulation (1) in consultation with the workplace safety committee concerned.

Section 22. (1) In the event of an accident or dangerous occurrence in or in connection with a workplace or if an employee dies or suffers a serious injury because of such an accident or dangerous occurrence, the employer shall notify and report such accident to the Chief Inspector of Labour of the area.

Notification Occupational of Diseases (OD), Section 23. If a medical practitioner finds that any person is suffering from an occupational disease listed in Annexure A. 2(1), or of any other disease that he or she believes was caused by that person's current or past employment, he or she shall immediately and in the form of Form OD. 1. report this fact to the chief medical officer of occupational health and safety.

• It shall be an unfair dismissal, or unfair disciplinary action, in terms of section 45 by an employer if such employer terminates the services of, or takes disciplinary action against, such employee if such employee has contracted an occupational disease listed in Annexure A. 2 (1), or any other disease, because of his or her past or present employment with such employer. Section 210, states that an employer shall ensure that an employee wears or uses, to the satisfaction of an inspector, suitable and adequate personal protective equipment.

Public Health and Environmental Act of 2015

Section 119 of this Act prohibits the existence of a nuisance on any land owned or occupied by the proponent. The term nuisance is important for this EIA, as it is specified, where relevant in Section 122 as follows:

a) any dwelling or premises which is or are of such construction as

Nuisance such as dust, noise, bad odours, etc. should be controlled during all project phases.

to be injurious or dangerous to health or which is or are liable to favour the spread of any infectious disease.

- b) any dung pit, slop tank, ash pit, or manure heap so foul or in such a state or so constructed as to be offensive or to be injurious or dangerous to health.
- c) any area of land kept or permitted to remain in such a state as to be offensive, or liable to cause any infectious, communicable, or preventable disease or injury or danger to health; or
- **d)** Any other condition that is offensive, injurious, or dangerous to health.

Furthermore, in terms of Section 8 of the Public Health Proclamation 16 of 1936, where a local authority is of the opinion that a nuisance is seriously offensive or a serious menace to the health, it may serve a notice on the owner or occupant of the nuisance to immediately remove the nuisance. Failure to abide by this provision is an offense.

Atmospheric Pollution Prevention Ordinance No. 11 of 1976 This Ordinance generally provides for the prevention of the pollution of the atmosphere and matters incidental thereto. The Ordinance deals with administrative appointments and their functions; the control of noxious or offensive gases; atmospheric pollution by smoke, dust control, motor vehicle emissions; and general provisions.

Part IV of this ordinance deals with dust control. The Ordinance is clear in requiring that any person carrying out an industrial process which is liable to cause a nuisance to persons residing in the vicinity or to cause dust pollution to the atmosphere, shall take the prescribed steps or, where no steps have been prescribed, to adopt the best practicable means for preventing such dust from becoming dispersed and causing a nuisance.

Air pollution could occur during the construction phase. It is the responsibility of NamWater to control excessive air pollution and comply with the ordinance.

Of applicability to the envisaged project, is dust generated by vehicles or equipment as well as dust generated during construction. The risk of dust generation is high at the envisaged site. This deals with air pollution as it affects occupational health and safety, and no consideration is given to the natural environment. To provide for the establishment of a Forestry Council and the appointment of certain officials; to consolidate the laws relating to the management and use of forests and forest produce; to provide for the protection of the environment and the control and management of repeal forest fires: to Preservation of Bees and Honey Proclamation, 1923 (Proclamation

No. 1of 1923), Preservation of Trees and Forests Ordinance, 1952 (Ordinance No. 37 of 1952) and the Forest Act, 1968 (Act No. 72 of 1968); and to deal with incidental

matters.

3. PROJECT DESCRIPTION

3.1 Locality

The proposed development site is located south of the town Central Business District (CBD) on the following coordinates -17.520820" S & 24.264700" E.

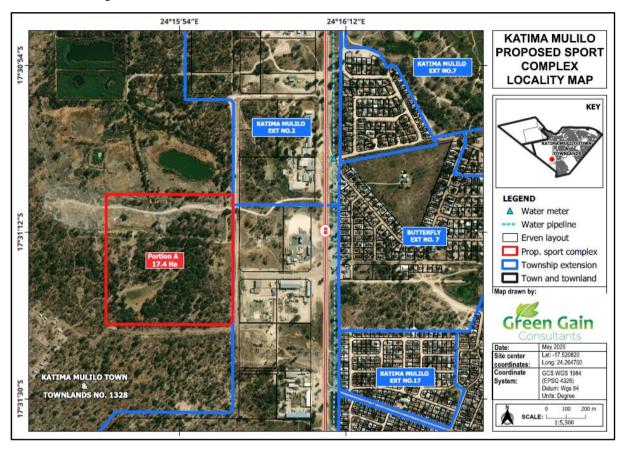


Figure 1: Locality of the proposed development

3.2 Site locality

The proposed development site is still vacant and is part of the land zoned "Undetermined" of the Katima Mulilo Town and Townlands No.1328. It is located out of the built-up area, about km from the town CBD.

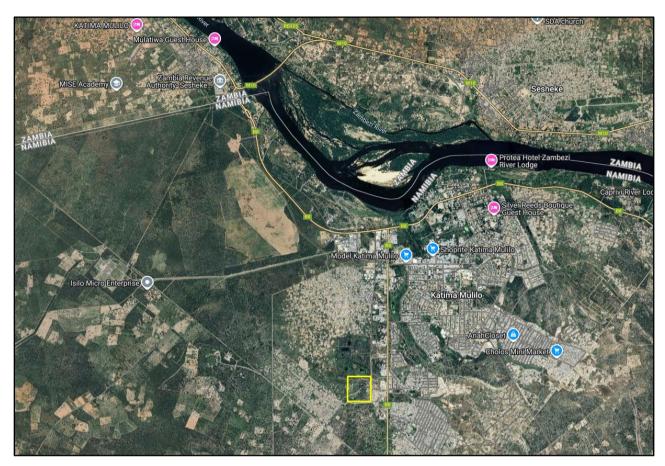
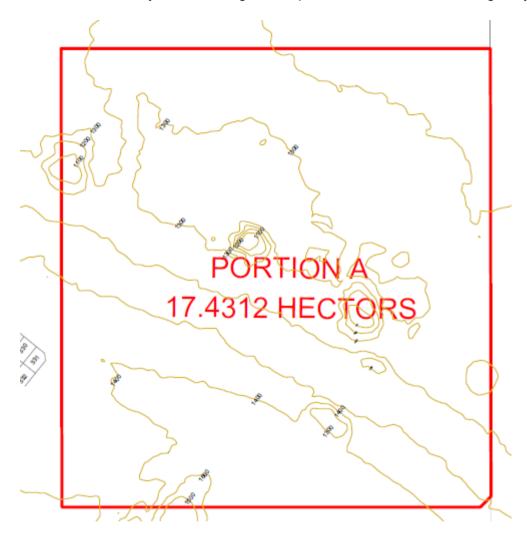


Figure 2: Overview of the site locality

3.3 Site elevation

The proposed development site lies between 1100 to 1500 m.a.s.l. The site is traversed by numerous minor waterways and has large water pond which holds water during rainy season.



3.4 Site and geohydrology

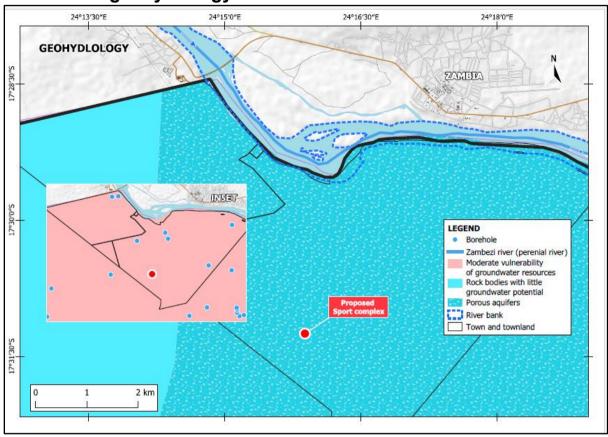


Figure 3: Geohydrology of the site

The site is located far from the Zambezi River stream and the groundwater of the locality area has a moderate vulnerability.

3.5 Site vegetation

The site is a vacant land (townland) still in its natural state and is covered by a thick bush consisting of shrubs and dotted with large trees of common specie of the Zambezi woodland most notably the Burkea (*Burkea africana*), Camelthorn (*Acacia erioloba*), Kiaat (*Pterocarpus angolensis*), Leadwood (*Combretum imberbe*), Mopane (*Colophospermum mopane*), Silver-leaf Terminalia (*Terminalia sericea*) and the Zambezi Teak (*Bailiaea plurijuga*). Most of these trees are protected under the Forestry Act 12 of 2001 should be protected from the proposed townships activities.



Figure 4: site overview

3.6 The Proposed Development

3.4.1 Proposed subdivision

The site is currently zoned "Undetermined" and is part of the Katima Mulilo Townland No.1328. Toya Urban Planning Consultants cc has been appointed to apply town planning procedures in terms of Section 105(1)(a) of the Urban & Regional Planning Act, (Act No. 5 of 2018) for the Subdivision of the Remainder of Katima Mulilo Townland No.1328 into Portion "A" and the Reminder & Rezoning of Portion "A" from "Undetermined" to "Government". This will ensure proper land use management and alignment with local development plans.

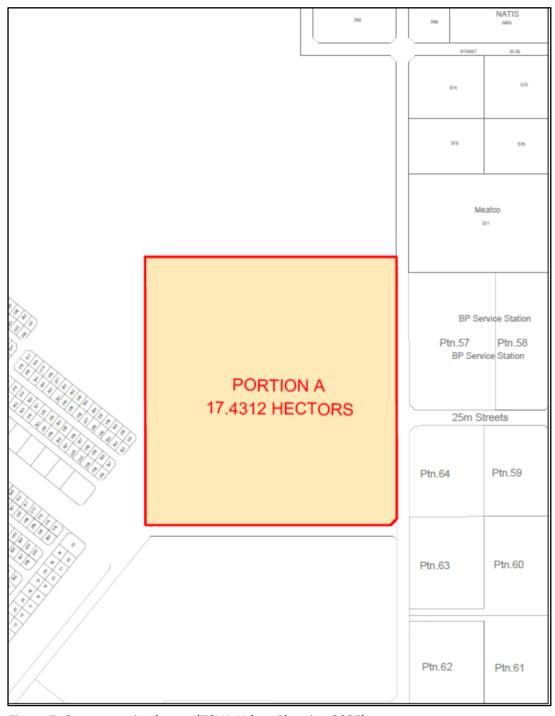


Figure 5: Current zoning layout (TOYA Urban Planning, 2025)

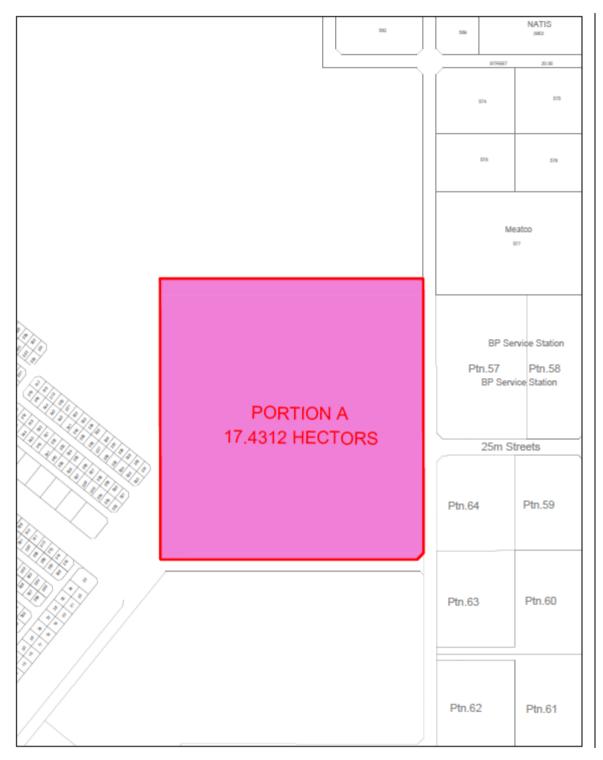


Figure 6: Proposed new zoning (Government) (TOYA Urban Planning cc,2025

3.4.2 Proposed Infrastructure

The main purpose is to support government efforts in decentralizing sport development, empowering youth, and fostering inclusive socio-economic development in the Zambezi Region. There proposed design and service layouts for the intended stadium is not available at the moment but, understably the stadium will feature a modern facility complented by infrastructure such as a natural turf (grass) playing field surrounded by athletic track area and steel pavilions.

Provision will also be made for entertiment perfomance areas, gate control rooms, change rooms and ablution facilities. The design and layout of the intended Sport complex is not available at this stage, hence this assessment is for the proposed subdivision and Rezoning of land from Undetermined to Government.

3.5 Need and Desirability

The need and desirability of the proposed development is based on the following aspects.

The "need" for the project:

- The main aim is to support government efforts in decentralizing sport development, empowering youth, and fostering inclusive socio-economic development in the Zambezi Region.
- The project is planned at a time and place in the developing sector of the town and can be a natural opportunity associated with the growth of the town.

The "desirability" of the project:

- As the site is located in an "expansion zone" of the town
- The approval of this application would not compromise the integrity of the existing environmental management priorities for the area.
- The location factors favour this land-use (associated with the activity applied for) as it is located within a developing orientated area with much potential for growth.
- It is not anticipated that the activity will result in unacceptable opportunity costs as it will be integrated with the existing developments.

3.6 Project Alternatives

The EIA Regulations stipulate that the Scoping process should investigate alternative development options to any proposed developments/activities. The following alternatives were analyzed.

- Land use alternatives: The proposed development site is within the townlands of Katima Mulilo townlands, thus is expected to be developed at any time to accommodate the growth of the town. Hence, the site is considered suitable for the proposed development, and no alternative site is required.
- Do-Nothing The do-nothing ("no go") option would entail not using the site and maintaining the site as is. From certain perspectives this is not a viable option as the site is situated within a proclaimed area planned for urban use and surrounded by either upcoming or already existing residential communities. By not developing the site, the site will be anomalous in the context of the surrounding urban residential landuses, and some of the direct and indirect socio-economic benefits will not be realized.

4. DESCRIPTION OF THE AFFECTED ENVIRONMENT

This chapter provides an overview of the baseline biophysical and social environmental conditions, with which the proposed development will interact. This information has been sourced from observations made and photographs taken during site visits, the team's experience and existing literature from previous research conducted in the area. This chapter also identifies sensitivities pertaining to key environmental features as well as potential impacts resulting from the proposed project in relation to these sensitivities.

4.1 Socio-economic Environment

4.1.1 About the area

Katima Mulilo is the capital of the Zambezi Region in Namibia, and it is a gateway to Botswana, Zambia, Zimbabwe, and Angola.

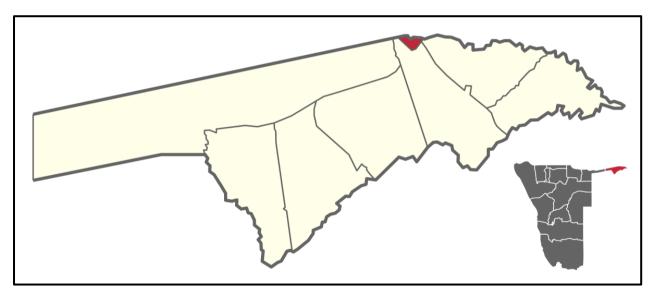


Figure 7: Locality map of Katima Mulilo

It is made up of two electoral constituencies Katima Mulilo Rural and Katima Mulilo Urban and had a population of 28,362 inhabitants in 2010. The town benefited from the military presence in terms of infrastructure and employment, and there are still a number of military bases surrounding the town.

4.1.2 Bulk service supply

Katima Mulilo town is served with municipal services such as.

- Water Supply: The main source of water supply is the Zambezi River, with a system
 including a water intake pump, a purification plant (NAMWATER) and a reticulated
 network through the existing roads using PVC pipes, serving the whole urban area.
 Informal settlements are served through water towers and communal taps with a
 prepaid system.
- Road network: Katima Mulilo is the terminal town of the Trans-Caprivi Highway, and
 the highway together with its extension to Zambia is called the Trans-Caprivi Corridor.
 The Trans-Caprivi Highway was opened in 1999, and the bridge to Sesheke, and with
 it the entire Trans-Caprivi Corridor. Few streets are tarred, and few have streetlights.
- Sanitation: There is a sewerage system in place, but it is said to be very old, with more than 50 years of functioning, so it is facing many functional problems (periodical obstructions, overcharges, etc.). There are 20 pump stations and oxidation ponds located in the west part are over their life spam. During heavy rains, the sewerage network is seriously affected, so a new system of oxidation ponds is developed in the east side, incorporating the settlements of Choto and Butterfly. The informal settlements are not connected to the existing sewerage network, while the industrial area is served through septic tanks.
- Communication & Electricity: The town is fully served by communications and electricity. These include television, radio, newspaper, telephone, and computer. The settlement is connected to the national grind and electricity is supplied by NORED, although some areas within the existing informal settlements are not yet served.
- Waste Management: The town is served with one legal waste disposal site located few kilometers from the town. The site accommodates all general waste originating from town except for hazardous waste. However, illegal dumping spots can be found in and around the town.

4.1.3 Socio-economic development

Katima Mulilo is well served by social services such as the government hospital with 200 beds, one health centre and three public clinics and a private clinic. In the education sector, there are six primary schools, three combined schools and three secondary schools, while in the field of further education, the town is seat of the Zambezi Vocational Training Centre, the Caprivi College of Education, as well one branch of the University and Polytechnic of Namibia. The town features an Export Processing Zone and the largest open market in Namibia. There is an important international electricity inter–link facility, the Caprivi Link Inter–Connector; has improved the power supply to the town.

4.2 Biophysical Environment

4.2.1 Climate

The Zambezi has a tropical to a subtropical climate with higher rainfall, less evaporation and a warmer winter than the rest of the country. Rainfall is mostly experienced during the summer, (between November and early April) with the average annual rainfall being more than 600 mm per year. The average annual temperature ranges between 21-22°C. The average maximum temperature for Katima Mulilo below varies between 34 and 36°C with the average minimum temperature between 2 and 4°C.

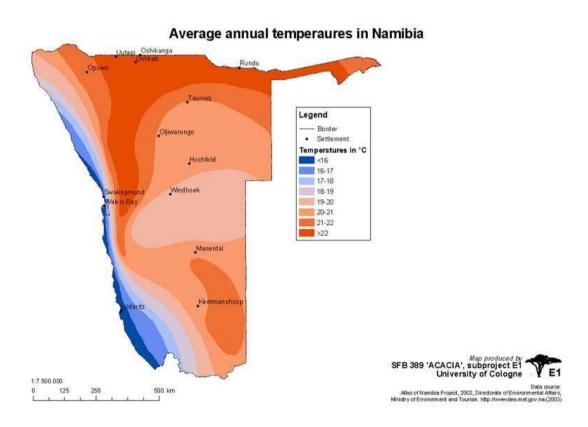


Figure 8: Rainfall map of Namibia

4.2.2 Topography

The town is located at the banks of the Zambezi River which periodically overflows owing to seasonal changes in the water-level of the river and affects the northern areas of the town, where there are several buildings and one residential area (Boma), although it doesn't constitute a major threat to most of the town area. The Katima Mulilo town is between 900 – 1000 meters of altitude, except the most eastern part of the region with 500-1 000 m. above sea level.

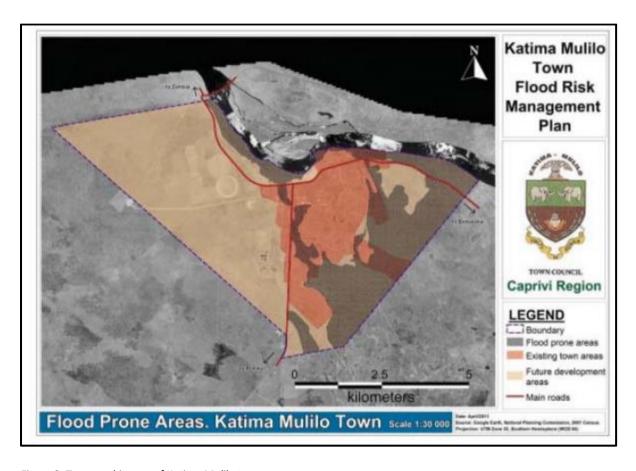


Figure 9: Topographic map of Katima Mulilo town

4.2.3 Soil and geology

The Zambezi Region is relatively flat with the highest areas occurring in the western part of the region. The region is covered in thick deposits of Kalahari sand leaving very little underlying geology exposed (Ministry of Lands and Resettlements, 2015). The soil in the region is characterized by the Kalahari Basin, which is dominated by sand dunes.

5. PUBLIC PARTICIPATION

Public consultation is an important component of an Environmental Assessment (EA) as it provides potential Interested and Affected Parties (I&APs) with a platform whereby they can raise any issues or concerns relevant to the proposed project. This assists the environmental consultant in considering the full spectrum of potential impacts and to what extent further investigations are required.

In addition, the public consultation process also grants I&AP's an opportunity to review and comment on all the documents produced throughout the EA process. This is done in accordance with the Environmental Management Act's EIA Regulations. Communication with stakeholders and I&AP's about the proposed development were facilitated through the following means:

5.1 Notification of key Stakeholders and Interested & Affected Parties

Section 21 of the EIA Regulations details steps to be taken during a given public consultation process and these steps have been used in guiding this process. Communication with I&AP's about the proposed developments was facilitated through the following means:

- Public notices were published in the Windhoek Observer and Confidante newspaper for 10 and 8 July 2025
- Public Notices were also placed at Town Council Headquarters, Open Market at UNAM
 Campus entrance and at the development site (See Figure 9).
- The notices provided a brief description of the proposed development, its location, and invites the public to register as I&APs and to the public meeting.
- Consultation with key stakeholders such as the Town Planner, Project Land Surveyor,
 Katima Mulilo Town Council Officials, MYSAC officials.
- Background Information Document (BID) was compiled that contained essential information about the proposed development.

6. IMPACT ASSESSMENT

6.1 Introduction

The EIA Regulations require "a description of the significance of any significant effects, including cumulative effects, which may occur as a result of the undertaking of the activity". The Table below indicates a summary of identified environmental impacts. These impacts are categorized into the various relevant stages of the life cycle of the proposed development, namely: Planning phase, Construction phase and Operational phase. The environmental assessment section of the Scoping Report and the consequent EMP shall also be compartmentalized into these into these phases.

6.2 Method of Assessment

The potential environmental impacts associated with the proposed will be evaluated according to its nature, extent, duration, intensity, probability and significance of the impacts as follows.

Table 2: Impact Assessment criteria

CRITERIA		DESC	CRIPTION						
EXTENT	National (4) The whole country	Regional (3) Zambezi region and neighbouring regions	Local (2) Within a radius of 2 km of the proposed site	Site (1) Within the proposed site					
DURATION	Permanent (4) Mitigation either by man or natural process will not occur in such a way or in a timeframe that the impact can be considered short- lived	Long-term (3) The impact will last for the entire operational life of the development but will be mitigated by direct human action or by natural processes thereafter.	Medium-term (2) The impact will last for the period of the construction phase, where after it will be entirely negated	Short-term (1) The impact will either disappear with mitigation or will be mitigated through natural process in a span shorter than the construction phase					
INTENSITY	Very High (4) Natural, cultural and social functions and processes are altered to an extent that they permanently cease	High (3) Natural, cultural and social functions and processes are altered to an extent that they temporarily cease	Moderate (2) Affected environment is altered, but natural, cultural and social functions and processes continue albeit in a modified way	Low (1) Impact affects the environment in such a way that natural, cultural and social functions and processes are not affected					
PROBABILITY	Definite (4) Impact will certainly occur	Highly Probable (3) Most likely that the impact will occur	Possible (2) The impact may occur	Improbable (1) Likelihood of the impact materialising is very low					
SIGNIFICANCE	time scale, and there and after mitigation. significance of the in		mitigation required. Signi	ficance is given before					
STATUS OF THE IMPACT									

Table 3: Criteria for significance ratings and associated range of scores

Significance Rate	Description	Score
Low	A low impact has no permanent impact of significance. Mitigation measures are feasible and are readily instituted as part of a standing design, construction or operating procedure.	1 - 4
Moderate	An important impact which requires mitigation. Mitigation is possible with additional design and construction inputs.	5 - 8
High	The design of the site may be affected. Mitigation and possible remediation are needed during the construction and/or operational phases. The effects of the impact may affect the broader environment.	9 – 12
Very High	Permanent and important impacts. The design of the site may be affected. Intensive remediation is needed during construction and/or operational phases. Any activity which results in a "very high impact" is likely to be a fatal flaw.	13 - 20

6.3 Assessment of Identified Impacts

All impacts included in the table below fall within the scope of this project and the responsibility of the proponent. Each of the potential impacts are screened and subjected to the criteria stipulated above in **Table 4**. The significance of each potential impact is determined based on the criteria in **Table 5**. It is expected that most of these impacts can be decreased by the proposed migratory measures.

Table 4: Potential Impacts during the planning and design phase

ASPECT	POTENTIAL IMPACT	SIGNIFI	SIGNIFICANCE BEFORE MITIGATION				MITIGATION MEASURE
		Extent	Duration	Intensity	Probability	Significance	
	The impact on vegetation is unavoidable. The site is made up of thick vegetation which will be destroyed during land servicing.	1	3	2	2	High	-Do not clear all vegetation, leave some (especially large trees) for landscaping and aesthetic purposes.
	destroyed during land servicing.						-Vegetation on are zoned Public Open Spaces should be left untouched as far as possible.
BIOPHYSICAL IMPACTS							-Cleared vegetation could be utilized as firewood or combusted into charcoal or biochar for use in agriculture to improve soil quality.
	Alteration of existing visual perspective	1	4	2	2	Moderate	-Large trees should not be removed
	Possible surface water and groundwater pollution	2	3	3	2	Moderate	-No pollutant must be discharged directly into watercourse or underground.
							-Ensure proper stormwater drainage channels around the site
							-The sewerage system should be of Municipal standards. The use of septic tanks is not recommended
	Loss of topsoil during construction	1	2	2	2	Low	-Soil conservation measures should be used on-site to help reduce erosion.

	Land disturbances due to construction activities	1	1	1	2	Low	-Prevent silting of watercourses by use of silt traps and re-vegetation of disturbed areas -Excavated topsoil must be stockpiled and protected for later useAvoid soil compaction and limit excavation to the area to be developed -All open trenches must be filled, and
	Potential damage or destruction to undiscovered heritage or cultural sites in the area	2	3	1	2	Low	area must be properly rehabilitated -There are no major archaeological or Paleontological grounds to suspend the proposed development. In case of any material of archaeological heritage importance observed during construction/operation phase, it must be reported to the National Heritage Council.
	Spillage, stockpiles and other construction related activities	1	1	1	2	Moderate	-Concrete mixing should be done on a pre-designed slab underlined by PVC lining or previously disturbed areas -Any spillage (fuel, oil, chemical etc.). must be cleaned immediately -All construction material must be sourced off-site from commercial sources
	Impacts of temporary construction camps	1	1	2	2	Moderate	-Construction camps (if allowed) should be properly located away from watercourses -Provide potable ablution facilities during construction -The site used for construction camps should be rehabilitated after construction phase
SOCIO- ECOCNOMIC	Increase in traffic within the area is expected due to construction activities and establishment of a township.	2	1	1	2	Moderate	-Identify new access roads to avoid congestionFlagmen and traffic controls should be appointed to regulate traffic flow of construction vehiclesAppropriate road signs & markings, sidewalks for pedestrians and taxi ranks should be provided throughout the layout.
	Generation of dust	1	1	1	2	Moderate	-Use dust-suppressing agents -Limit Vehicle speed

						-Avoid dust generating activities during strong wind.
Noise created by construction activities, which might be a nuisance to residents and employees.		1	1	1	Low	-Construction should be limited to normal working days and office hours (08h00-17h00)All employees must have PPEWatering of all construction haulage signage should be place at the entrance of the construction.
Loss of agricultural land for grazing & cultivation to residential/town	2	4	3	3	Moderate	-The proposed development site is already a proclaimed townland.
New development will attract new criminal activities in the area	1	1	1	1	Low	-All items should be stored away from the sites -Ensure that our properties are secured
Economic development (+ve)	4	2	1	3	High	-Contractors should source materials from local suppliers to enhance the local economy
Employment of the local community	4	4	2	3	Moderate	-Local laborers (especially the ones from the affected & neighboring village/residents) and local contractors (especially SMME's) should be utilized to a greater extent. This should also include the youth, women and people with disability.
New development will increase demand water	4	4	4	4	High	-Ensure water recycling measures and provide alternative sources of water i.e. rainwater harvesting.

Table 5: Potential Impacts during operation phase of the proposed development

ASPECT	POTENTIAL IMPACT	SIGNIFICANCE BEFORE MITIGATION					MITIGATION MEASURE
		Extent	Duration	Intensity	Probability	Significance	
	Impact on biodiversity (flora and fauna)	1	4	1	2	Moderate	-Plant more trees to enhance biodiversity
	Alteration of existing visual perspective	1	4	1	1	Moderate	-Maintain the existing indigenous trees community and plan more trees in in and around the development to enhance greenery view
BIOPHYSICAL IMPACTS	Possible surface water and groundwater pollution from leaking sewage lines or underground storage of dangerous goods.	2	1	2	2	Moderate	-No pollutant must be discharged directly into watercourse or underground. -All houses must be connected to the Municipal sewer system -Sewage lines must be maintained frequently to prevent leakages
	Impact on the natural watercourse and natural flow of storm water and flood water	2	1	1	1	Moderate	-Ensure maintenance of storm water channelsNo waste should be discharged into drainage or natural water flows.
SOCIO- ECOCNOMIC	Increase in traffic within the area and diversion of existing access roads for the community due to the new development	2	4	1	1	Moderate	-Ensure enough access roads and provide regular maintenance -Provide appropriate road signs & markings, sidewalks for pedestrians and taxi ranks should be provided
	Land use conflict between the Town Council and livestock owners over water and grazing area as livestock will be attracted by water and grazing within the new township.	2	4	4	3	Moderate	-All animals currently kept on site must be moved to rural areas and no animal should be kept at any property within this site
	Increase demand of water and electricity	2	4	4	4	Low	-The proposed development is part of the approved town SDF and thus have been included in the demand management plan.
	Loss of access to indigenous trees by the local people	2	4	2	4	Low	-Existing indigenous trees must be conserved in Public Open Space areas

							and communities must be allowed access to these trees even after development.
	Provision of housing delivery (+ve)	4	4	4	4	High	-Local people must be given the first priority
	Employment of the local community (+ve)					High	Local laborers (especially the ones from the affected & neighboring village/residents) and local contractors (especially SMME's) should be utilized to a greater extent. This should also include the youth, women and people with disability.
	-Provision of services next to the people (sewage, communication, etc.)	4	4	4	4	High	-Consider input from locals

7. CONCLUSION AND RECOMMENDATIONS

The objective of the Scoping Phase was to define the range of the impact assessment and identify the gaps in information, hence determine the need for any specialist studies. It is believed that these objectives have been achieved and adequately documented in this Report. All possible environmental aspects have been adequately assessed, and necessary control measures have been formulated to meet statutory requirements.

7.1 Conclusion

The following conclusions can be made.

- Since the details of the proposed infrastructure design and layout are not available at this stage, the EIA study only focuses on the proposed subdivision, rezoning Portion A from undetermined to Government and suitability of the envisaged sport complex.
- Appropriate statutory town planning procedure will be applied for the subdivision of Katima Mulilo Extension 39 and Rezoning of Portion A from "Undetermined" to "Government"
- The proposed land use zone "Government" is considered appropriate for the envisaged development of a sport complex in terms of the Urban and Regional Planning Act 5 of 2018.
- The proposed development site is deemed suitable for the envisaged development (Sport complex), and it is compatible with the adjacent land uses (existing residential and the businesses in the vicinity).
- The site is easily accessible and can easily be connected to existing networks (bulk supply services) e.g., water, electricity, etc.
- It is also concluded that there are no sensitive cultural or heritage materials that are known to occur on the proposed development site. In case of any such material found at site during construction phase, this should be reported to the National Heritage Council (NHC).

7.2 Recommendations

To the Proponent and Design Team

- Design with flexibility to adapt to future needs and technological advancements, using adaptable secondary spaces like cafeterias, changing rooms, and viewing areas.
- Design facilities that can be used for different sports and events simultaneously to maximize usage.
- Building material to be used should be durable, high-performance, and eco-friendly to withstand heavy use, reducing maintenance costs over time.
- Provide sufficient sewerage system that is connected to the existing Municipal oxidation ponds. Sewerage system should be constructed to the industry standard and to the satisfactory of the KMTC and MYSAC.
- Engage with NORED for the provision of energy-efficient designs to reduce long-term operational costs
- Sufficient fill (gravel) must be provided to ensure stability of the soil, especially on low lying areas to prevent flooding.
- Ensure there is a Storm Water Management Plan for the site and implement systems to monitor and manage environmental conditions, such as water content for turf fields, which is critical for field health.
- The project design must incorporate the harvesting and storage of rainwater to reduce the amount of storm water to be attenuated.

To the Environmental Commissioner

 Authorize the issuance of an Environmental Clearance Certificate for the Proposed Subdivision of the Katima Mulilo Townland No.1328 into Portion "A" and the Reminder & Rezoning of Portion "A" from "Undetermined" to "Government" to enable the Construction of the Sport Complex and related Public Infrastructure

8. REFERENCES

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9. APPENDICES

9.1 APPENDIX A: Council Resolution

9.2 APPENDIX B: Proof of Consultations

9.3 APPENDIX C: EMP