

Application No: 250814006243

ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED WASTE DISPOSAL SITE FOR EENHANA TOWN COUNCIL, AT EENHANA TOWNLAND, OHANGWENA REGION



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ACRONYMS

DEA Department of Environmental Affairs

EA Environmental Assessment

EAP Environmental Assessment Practitioner

ECC Environmental Clearance Certificate

ECO Environmental Compliance Officer

EIA Environmental Impact Assessment

EMA Environmental Management Act (No. 7 of 2007)

EMP Environmental Management Plan

ETC Eenhana Town Council

MET Ministry of Environment and Tourism

RD Red-Dune Consulting CC

SM Site Manager

EXECUTIVE SUMMARY

Population growth and rapid urban development have increased the generation of household, industrial, and sewage waste. Inadequate waste management is harmful to the environment: it can spread disease, contaminate water resources, threaten animals, and create an eyesore. Measures are therefore required to ensure effective waste management, including provision of managed disposal sites and adequate sewage facilities.

Worldwide, landfilling remains one of the most widely used methods for municipal solid waste management. Eenhana Town Council (ETC) operates a solid waste disposal site on the outskirts west side of town(-17.486115°"S, 16.311923°"E). The site is used for general waste such as beverage containers, cans, bottles, and plastics. Hazardous wastes, including medical waste, are not accepted at the site.

The Department of Environmental Affairs in the Ministry of Environment and Tourism recommended closure of the existing site, a recommendation reinforced by complaints from nearby residents about air pollution. Consequently, ETC has decided to identify a suitable location for a new waste disposal facility.

Operation of a waste-disposal site is a listed activity under the Environmental Management Act (Act No. 7 of 2007) and cannot proceed without an Environmental Clearance Certificate. Accordingly, an Environmental Impact Assessment was conducted for the proposed new site, with particular attention to leachate control, which is a primary cause of land and water pollution. This study recommends operational guidelines, monitoring protocols, and closure and rehabilitation measures to ensure the long-term environmental sustainability of the new facility.

ETC initially submitted an Environmental Impact Assessment (EIA) and an Environmental Management Plan (EMP) on 15 July 2019, as part of the application for the Environmental Clearance Certificate (ECC) for a new solid waste disposal site, under application number APP-00270. Over the years, follow-up inquiries have been made to request updates on the review process; however, no formal response has been received from the Office of the Environmental Commissioner (see Annex 1).

Although efforts to establish the new waste site have been ongoing since June 2019, ETC has been unable to commission the new facility due to financial constraints. As a result, ETC has continued to operate the existing waste disposal site in accordance with the EMP submitted in July 2019.

To ensure compliance with national laws and to facilitate the mobilization of funds for the development of the new solid waste disposal site, this application is now being resubmitted for the issuance of an ECC, to enable the eventual development and operation of the new solid waste management facility for ETC.

Chapter 1. INTRODUCTION AND BACKGROUND

1.1. Introduction

For centuries, landfill sites have been used for solid waste disposal in cities and towns. Eenhana Town is home to over 5,000 people, so a substantial amount of solid waste is produced. Eenhana was proclaimed a settlement in 1992 and a town in 1999. At that time, no law required the town to provide an environmentally friendly waste-disposal facility; instead, a simple "dumping" site without provisions for environmental management was used. The Office of the Environmental Commissioner in the Ministry of Environment and Tourism inspected the existing site and recommended its closure and the establishment of a new, properly managed solid-waste disposal facility.

1.2. Regulatory Requirements

The protection of the environment is provided for under Article 951 of the Namibia Constitution. The Environmental Management Act (Act No 7 of 2007) (EMA) and its Environmental Impact Assessment Regulation 2012, list handling and disposal of waste as an activities that cannot be undertaken without an Environmental Clearance Certificate (ECC) (Table 1).

Table 1 Listed activities in relation to the operation of the waste disposal site

Activity Listed Activity under EMA	
• Activity 2. Operation of	2.1 The construction of facilities for waste sites,
DisposalSites	treatment of waste and disposal of waste;

It is against the above statutory requirement that ETC contracted Red-Dune Consulting CC (RDC) to undertake an environmental impact assessment and to develop the environmental management plan for the proposed new waste disposal site at Eenhana Town

1.3. The need and desirability of the project

The dangers of uncontrolled waste disposal are well documented, ranging from environmental degradation and contamination of soil and surface and groundwater to threats to human and animal health and aesthetic nuisances. Solid waste in landfills undergoes decomposition, producing liquids (leachate) and greenhouse gases such as methane and carbon dioxide. During

rainfall, water percolates through the waste and carries a mixture of contaminants into the ground. Because the current site lacks leachate-containment measures, it poses a significant threat of groundwater contamination.

1.4. Terms of reference

The Terms of Reference (TORs) of this EIA is in accordance with the Environmental Management Act 2007 and its Regulation Section 9 (a-b). It further considers other relevant local, national and international laws. These guidelines are aimed to focus on issues of greater environmental concerns and to develop mitigation measures for effective environmental management. The TORs of this project includes, but not limited to the following;

- Provide a comprehensive description of the proposed Project;
- Identify relevant legislation and guidelines for the project;
- Identify potential environmental (physical, biological and social) conditions of the project location and conduct risk assessment;
- Inform Interested and Affected Parties (I&APs) and relevant authorities about the proposed project to enable their participation and contribution;
- Develop an Environmental Management (EMP) that would be a legal guideline for the environmental protection by the project

1.5. Scope

The scope of this EIA is guided by the Environmental Regulations (2012) and follows the process illustrated in Figure 1. The purpose is to identify potential impacts, assess their significance, and develop practical, cost-effective mitigation measures to minimize those impacts. This EIA addresses air pollution, surface- and groundwater contamination, human and animal health and safety, and general littering. Red-Dune (RD) expects the resulting Environmental Management Plan (EMP) to provide effective mitigation measures that will ensure the sustainable management of the waste-disposal site. Furthermore, RD considers the information in this report sufficient for the Environmental Commissioner to approve the project and issue the Environmental Clearance Certificate.

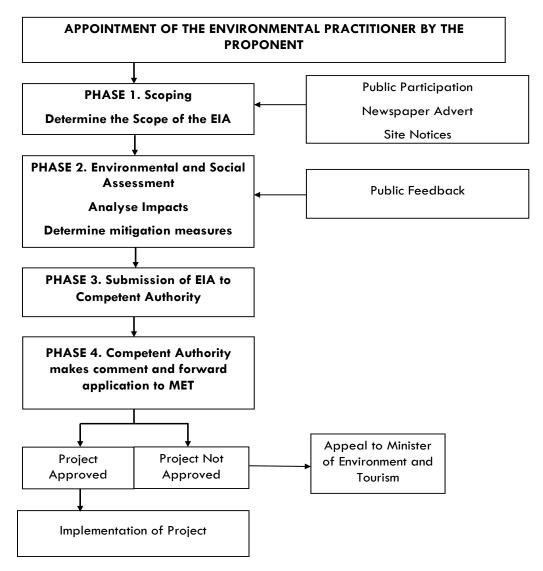


Figure 1. The Scope of the EIA Process in Namibia

Chapter 2. PROJECT DESCRIPTION

2.1. Site Characteristics

The proposed site is located at Ekolola Settlement, northwest of Eenhana Town (17.447749°S, 16.309357°E). The site will cover an area of 5 hectares (ha); subdivision into individual cells will be carried out by the Eenhana Town Council. The area remains largely pristine and is characteristic of subtropical forest (Figure 2). It is accessible via a gravel road, which will require substantial upgrading.

As seen in the Google image, there used to be traditional homesteads in the area; some residents have already relocated, while others are in the process of relocating following town demarcation. The site is more than 1 km from the Ekolola settlement and is not in close proximity to any households

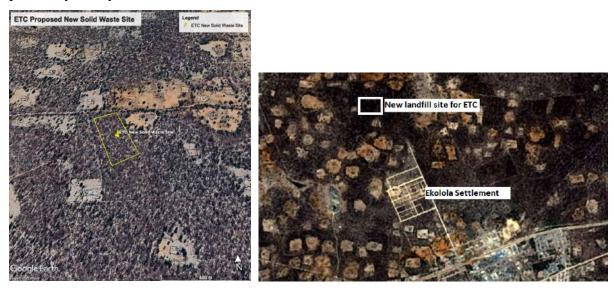


Figure 2. The proposed new waste disposal site for Eenhana Town Council

2.2. Type of Waste Disposal

The waste site will primarily receive household waste, including beverage containers, cans, bottles, and plastics. Hazardous waste, such as medical waste, will be carefully disposed of at designated facilities to ensure environmental and public safety. The site will be enclosed with a fence to enhance security, and a security guard will be employed to monitor and safeguard the premises. Waste management at the site will involve backfilling and compaction, which will be performed using a bulldozer to maximize space efficiency. Controlled burning will be employed as a method to reduce waste volumes, while minimizing smoke emissions and

environmental impact. Additionally, the site will collaborate with recyclers, primarily those involved in the collection and recycling of plastic containers.

2.3. Design and Engineering

Landfill design varies depending on whether the facility serves industrial or municipal purposes. The construction of a general landfill typically includes site preparation, perimeter fencing, access roads, administrative buildings, liners, a leachate management system, and, where necessary, a gas collection system. A critical consideration in landfill engineering is the effective management of leachate to protect groundwater and surface water resources.

2.3.1. Fencing and Excavation

The design and engineering of the Eenhana Waste Disposal Site have considered groundwater protection as well as the safety of people and animals. Air pollution risks were factored into the site selection process. Consequently, the site was located on the northwestern boundary of the town, aligned with the prevailing wind direction, which flows from the southeast to the northwest.

For safety and access control, the entire area will be enclosed with diamond-mesh wire fencing, securely anchored in reinforced concrete.

The Ohangwena Region contains valuable groundwater resources, notably the Ohangwena Aquifer. According to a study conducted by the Federal Institute for Geosciences and Natural Resources (BGR) in partnership with the Ministry of Agriculture, Water and Forestry (MAWF), the top aquifer lies at an average depth of 235 meters (ranging from 189 to 331 meters) and is recharged from across the border in Angola. Additionally, there are patchy, shallow aquifers throughout the region. Groundwater is often encountered at shallow depths, approximately 10 meters on average as evidenced by numerous hand-dug wells used for domestic and livestock purposes. For this reason, excavation at the proposed site must be limited to a depth of no more than 5–6 meters to avoid disturbing the shallow groundwater table.

2.3.2. Water supply

ETC should provide the site with potable water. Regarding sanitation, ETC must provide two portable toilets, one for male and one for female users.

2.3.3. Electricity

Electricity will be required primarily for lighting and the operation of essential equipment. Modern waste disposal facilities typically include a weighbridge to monitor and record the quantity of waste received. Power will be necessary to operate this weighbridge system. Fortunately, electricity is available at the site and can be supplied by the Town Council.

2.3.4. Access road

The site is currently undeveloped but is accessible via an existing gravel road. To ensure that smaller vehicles can reach the site safely and reliably, ETC will be responsible for upgrading this access road.

2.3.5. Leachate management system

Leachate control is essential in any landfill design to prevent environmental contamination. The most used methods for leachate management include:

- Cover systems
- Bottom liner systems
- Pre-treatment of solids

Given the local context, particularly the small population size of Eenhana (just over 5,000 people) and resource limitations, a cover system is considered the most practical solution.

a) The Cover System

The cover system is the most commonly used method to control leachate generation. It involves layering soil or other materials over the waste to limit water percolation, which reduces the formation of leachate. This system also helps control odours, pests, and windblown litter.

There are three main types of cover systems:

Daily Cover A thin layer of sand or gravelly soil is applied over the newly disposed waste every day. This layer reduces water infiltration, controls odours, deters vermin, and prevents lightweight waste from being blown away by the wind. However, consistent availability of suitable cover material may limit daily implementation.

Intermediate Cover Applied at regular intervals e.g., weekly or bi-weekly, this cover uses more material than daily cover due to the greater volume of accumulated waste. It serves a similar purpose, providing temporary protection between daily operations and final closure.

Final Cover This is applied once the landfill has reached the end of its operational life. It consists of a thick (1–2 meter) layer of compacted soil designed to prevent water infiltration. The final cover must be graded with a gentle slope to facilitate surface runoff and prevent water ponding, which could otherwise lead to leachate formation.

b) Bottom Liners System

The bottom liner system is an engineered solution that includes a network of drainage pipes installed at the base of the landfill to collect and direct leachate to a treatment pond (figure 3). The base is typically sloped to facilitate gravitational flow. The standard components of this system include:

- A high-density polyethylene (HDPE) geomembrane installed at the landfill base to prevent leachate from seeping into the soil.
- A leachate collection system placed directly above the HDPE liner.
- A geocomposite drainage layer above the collection system to assist with liquid flow.
- A protective gravel cover, compacted to a minimum thickness of 300 mm, placed over the drainage system to prevent damage from heavy machinery.

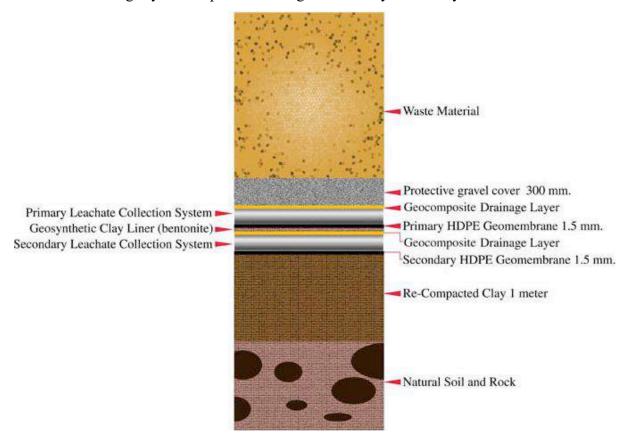


Figure 3. An Example of bottom liner (Li Rong 2009)

Depending on the volume of leachate expected, primary and secondary leachate collection systems may be installed. However, given Eenhana's relatively small population, a dual system is likely unnecessary.

If a bottom liner system is adopted, a leachate collection pond will be required. This pond must be lined with HDPE and supported by a leachate treatment process.

Leachate treatment typically involves a combination of biological and chemical methods:

- **Biological Treatment**: Uses aerobic bacteria to decompose organic matter. However, this alone is insufficient, especially for removing heavy metals.
- Chemical Treatment: Complements biological treatment and includes processes such as adsorption, oxidation, or ammonia stripping to handle contaminants that biological methods cannot remove.

While effective, the bottom liner system and associated treatment infrastructure involve significantly higher costs and technical expertise.

2.3.6. Other Infrastructure

In addition to the main components mentioned above, the waste disposal site will include the following supporting infrastructure:

- A security guard room for onsite personnel.
- Recycling and sorting facilities to promote waste minimization and resource recovery.

Chapter 3. DESCRIPTION OF THE AFFECTED ENVIRONMENT

3.1. Land use

The proposed site lies within the boundaries of Eenhana Town. Surrounding land is communal and used primarily for subsistence farming, including grazing of goats, cattle, and donkeys and cultivation of Omahangu crops. An informal settlement, Ekolola, is located within a 1 km radius of the waste site...

3.2. The population demography

Eenhana, is one of the four administrative Regional Capitals in the Oshiwambo speaking Northern Regions of Namibia, others being Omuthiya (Oshikoto), Oshakati (Oshana) and Outapi (Omusati). With an estimated population of approximately 5,000 people, it serves as the Regional Capital of the Ohangwena Region. The region shares borders with Kavango Region to the east, Oshikoto and Oshana Regions to the south, and Omusati Region to the west. Ohangwena spans a total area of 10,703.2 km² and has a population density of about 31.7 persons per square kilometre, which is significantly higher than the national average, making it the second most populous region in Namibia.

According to the 2023 Namibia Population and Housing Census, Ohangwena has a total population of 337,729 people, consisting of 159,701 males and 178,028 females. This represents approximately 11.2% of Namibia's total population. The region has experienced notable population growth, increasing from 245,446 in 2011, which corresponds to an annual growth rate of 2.7%.

The region remains predominantly rural, with 85.5% of the population residing in rural areas. Its landscape is characterized by small towns and scattered villages, resulting in a lower level of urbanization compared to other regions in the country.

3.2.1. Eenhana Population and Growth

In 2001, Eenhana's population was estimated at 2,814. The 2011 Census recorded 5,528 residents. However, the town's 2014 in-house statistics estimate the population of formal and semi-formal settlements at 10,120. This estimate was derived by applying the 2011 average

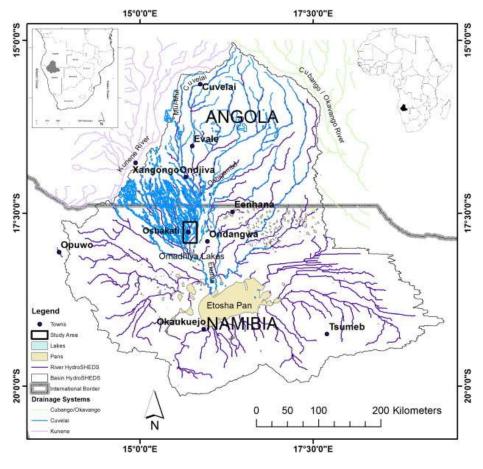
household size of 4.4 persons to the town's 2,300 residential erven (1,700 formal and 600 informal).

These figures clearly indicate rapid expansion and development over a short period, making Eenhana one of the fastest-growing towns in Namibia, hence effective waste management is required¹.

3.3. Physical Environment

3.3.1. Topography and Drainage

Ohangwena is situated on a flat plain and extends east to west along the Angolan border. The area has a flat topography with drainage highly influenced by the Cuvelai Basin. Its drainages is made up of networks of shallow watercourses locally known as "*Iishanas*" (Fig 4). These *Iishanas* are recharged by floodwater from Angola during times of high rainfall or filled by rain that occur in the region. Drainage is particularly influenced by the Niipele-Odila Sub-Basin which forms the eastern part of the Ohangwena Region and the north eastern part of the Oshikoto Region. Drainage flow is in the south-western direction towards the Etosha Pan.



¹ Eenhana Town Investment Profile 2021-2025

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Figure 4. Drainage of Cuvelai system (F.C.Persendt and C.Gomez 2016)

3.3.2. Geology and Hydrology

Namibian's northern part, commonly known as the "Owambo Basin" is formed by sand deposit from water borne deposit millions of years ago. These deposit of sand and water borne deposits formed the Kalahari Basin. The deposits of sands, clay and calcretes makes up the Kalahari Group. Some rivers such as Okavango River of the Kalahari Group are still active today, while some drainage are formed up by intermittent flow of water such as the Cuvelai drainage system.

The surface basin is underlain by the Ohangwena Kalahari Aquifer, which is the main source for sustainable water supply in the region. Ground in the region is normally found 10m below the ground.

There are no bulk water schemes such as the network of canals and pipelines that supply water originating from the Calueque Dam in Angola to Omusati and Oshana. Ground water is the main source of water supply in the region.

Surface water in the area is found in the *Iishanas* during rainfall season and the end of the rainfall season; water is found in natural ponds (*Omadhiya*). Surface water that normally last between rainfalls seasons are found in manmade lakes.

3.4. Biophysical Environment

3.4.1. *Ecology*

The impact of developmental projects and related activities may have detrimental effects on the environment, both bio-physical and social. This section focuses on the bio-physical i.e. ecological aspects of the project area. An Ecological Impact Assessment was undertaken to assess the potential impacts of the proposed project. The study was informed by a comprehensive literature review followed by a site visit. The findings and recommendations are summarised below.

Eenhana Town is in the middle of the North-eastern Kalahari Woodland which is composed of broadleaved trees and shrubland. This landscape is characterised by deep sand, tall trees and grassland (Fig 5). The town being amongst the fasted growing town councils in Namibia, environmental transformation has also been rampant in the area. The town council had to expand its municipal boundaries to meet the demand for developmental land.

a) Flora

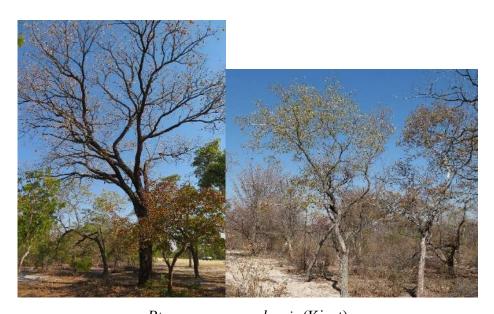
A site visit was undertaken 6th June 2019 to establish the vegetation in the study area for this EIA. The project area although located within municipal land is well vegetated with tall trees that are typical of the vegetation type. Pictures of the dominant plants are presented in the subsequent table with their conservation status. The dominant tree species found in the project area are *Burkea Africana*, *Terminalia* species, *Combretum* species and a few *Acacia erioloba*. The field assessment was undertaken during the dry phase of the year and no grass species could be identified. However, the common grass species that are known to occur in the area consist of *Cynodon dactylon*, *Schmidtia kalahariensis*, *Brachiaria*, *Anthephora and Erasgrostis* species.



Figure 5: The landscape dominated by tall trees and deep sand as portrayed above



Acacia erioloba (Camelthorn Tree) and its valuable pods used for animal fodder Protection status: Protected in Namibia



Pterocarpus angolensis (Kiaat)
Protection status: Near Threatened in Namibia



Erythrophleum africanum (Ordeal Tree)
Protection Status: no conservation status



Boscia albitrunca (Shepherd's Tree)
Protection status: Protected in Namibia



The thicket composed of *Burkea Africana* (Protected in Namibia) *and* Zambezi Teak trees (*Baikiaea plurijuga*)



Ximenia cafra (Large Sourplum)

No protection status



A mixture of Teak, Terminalia and compretum trees



No grass species or tufts were found on site due to the dry season and low rainfall received in the area.

Table 2. Vegetation list of trees occurring in the surrounding and their conservation status

Scientific Name	English Name	Conservation Status
Peltophorum africanum	Huilboom	Protected
Acacia fleckii	Sandveld acacia	-
Bauhinia petersiana	White bauhinia	-
Combretum imberbe	Leadwood	Protected
Philenoptera violacea	Rain Tree	Protected
Ziziphus mucronata	Buffalo-thorn	Protected
Baphia massaiensis	Sand Camwood	-
Grewia villosa	Mallow raisin	-
Acacia luderitzii	Kalahari acacia	-
Commiphora africana	Tall common corkwood	-
Pterocarpus angolensis	Kiaat	Near Threatened
Mundulea sericea	Silver Bush	-
Ficus cordata	Namaqua rock fig	Protected
Grewia flavescens	Sandpaper raisin	-
Loncocarpus nesii	Kalahari apple-leaf	Protected
Grewia bicolor	Omundjembere	-
Terminalia prunoides	Purple-pod terminalia/	-
Schinziophyton rautanenii	Manketti	Protected

b) Fauna

The study area falls within townlands, and no wildlife was observed nor expected to occur. Wildlife naturally relocates further as soon as human activities are introduced in pristine areas. Due to subsistence farming activities surrounding Eenhana Town, livestock have been observed grazing in the surrounding areas (Figure 6). Birds and reptiles are also known to be abundant in the area.



Figure 6: Cow dung in the project area as evidence of livestock occurring

3.4.2. Ecological Impact Assessment

The proponent indicated that there will be a need to clear vegetation in the project sites to enable project activities. This would necessitate permits to be obtained from the Ministry of Agriculture, Water and Forestry; Directorate of Forestry as some of the trees have a protection status as per Forestry Act. Application process for the clearance permit can be a condition to be attached on the Environmental Clearance Certificate.

It is important to put mechanisms in place to ensure that unintentional disturbance is averted. Alteration in the area's landscape, need to be managed in a manner that does not negate the existing natural processes of the area and/or risk the health and safety of its inhabitants and biodiversity stocks. To avert these impacts, it is recommended that project activities be restricted within the confines of precautionary principles to ensure its sustainability.

3.5. Climate Conditions

3.5.1. Rainfall

Namibia is an arid country, its climate is characterised by high temperatures, sporadic low rainfall. Rainfall in decrease from east to west, with Zambezi Region receiving the highest rainfall of 600ml/year. Annual rainfall ranges from 480mm in the west to 600mm in the east. According to Mendelsohn *et al* 2002, rainfall season starts from December to March. In most

cases, the peak rainfall is between January and February, however this is not consistent as some years the rainfall is evenly distributed between December and March.

3.5.2. Temperature

Temperature condition in the northern part of the country is similar. It is mainly hot for most part of the year, with an average maximum temperature ranging between 24 °C-36 °C during summer. While during winter, the temperature is mainly cold ranging between 7 °C - 21°C. October is the hottest month while June/July is normally the coldest month

Chapter 4. PROJECT ALTERNATIVES

The Environmental Management Act (EMA) requires an Environmental Impact Assessment (EIA) to consider a range of project alternatives to ensure that environmental impacts are reduced to an insignificant level. Alternatives may include different project activities, the no-go option, site locations, and technology or equipment choices. The alternatives considered for the proposed waste-disposal site are listed below and described in the sections that follow:

- Alternative project activity
- No-go alternative
- Implement the project
- Site location alternatives
- Technology options

4.1. Alternative project activity

4.1.1. Landfilling vs Thermal Incineration

This alternative compares two approaches to municipal solid-waste management: landfilling and thermal incineration. Thermal incineration involves combusting waste in a controlled chamber at high temperatures, reducing waste volume to ash.

Comparison		
Landfilling	Thermal Combustion	
Cost-effective for a small town like Eenhana	Very costly to install and operate for a	
	small town such as Eenhana.	
Allows waste sorting and recycling, creating	Limited opportunity for recycling when	
local employment opportunities.	waste is combusted.	
Can capture methane to reduce	Can produce electricity through	
greenhouse-gas emissions and potentially	combustion if a suitable facility is	
generate energy.	installed.	
Has a risk of leachate generation and potential	Reduces waste volume and can minimize	
water-resource pollution if not properly	leachate generation, but requires	
managed.	air-emission controls and produces ash	
	that requires safe disposal.	

4.1.2. Implement project vs No Go alternative

This analysis assesses the environmental and socio-economic consequences of proceeding with the project versus maintaining the status quo. A project may not be implemented if it poses dire harmful impact to the environment and socio-economic of people or in instances where the project's impacts are not fully understood and a precautionary approach is applied.

Implement project:

- **Impacts:** vegetation clearing, landscape alteration, visual impacts, and some risk to water resources during construction and operation.
- **Benefits:** provides a properly designed and managed landfill that will improve solid-waste management, reduce uncontrolled dumping, and protect the environment more effectively than the current site.

No Go alternative:

- **Impacts:** continued use of the existing, inadequately designed waste disposal site, with ongoing risks to groundwater, air quality, public health, and local amenity.
- **Benefits:** no immediate vegetation clearing at the proposed site. However, because the proposed site falls within townlands, it may be cleared for other development in the future.

4.1.3. Site alternative

Land available to Eenhana Town Council (ETC) is limited because the town is surrounded by traditional homesteads. Current urban expansion is occurring to the south, while the northern boundary is less developed and less densely populated. The proposed site location was selected with regard to current and planned town development, and to minimize impacts on grazing and local ecology.

4.1.4. Technology

The planned landfill operations do not require specialized technologies that pose significant environmental risks. Standard equipment such as compactors, bulldozers, graders, and basic leachate and stormwater management structures will be used. Selection of appropriate operational practices and pollution-control measures (e.g., leachate containment, gas management where feasible, and controlled waste sorting) will minimize environmental impacts.

Chapter 5. POLICY AND LEGAL FRAMEWORK

The project approval and operation shall be subject by the following national and international laws (Table 3).

 Table 3. Policy and Legal framework governing the project

REGULATORY	SUMMARY	APPLICABILITY
FRAMEWORK		
The Namibian	The State shall actively promote and maintain the welfare of the people by adopting	Protection of the environment and
Constitution	policies aimed at The maintenance of ecosystems, essential ecological processes	biodiversity
	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	
Environmental	This act aims to promote the sustainable management of the environment and the	The acts provide a list of activities
Management Act	use of natural resources and to provides for a process of assessment and control of	that may not be undertake without an
No. 7 of 2007	activities which may have significant effects on the environment; and to provide for	environmental clearance certificate
	incidental matters	to prevent environmental damages
Draft Pollution	This Bill serves to regulate and prevent the discharge of pollutants to air and water	To protect the Environment from
Control and	as well as providing for general waste management	possible hydrocarbons and oil leaks
Waste		from the machinery and vehicles
Management Bill		

REGULATORY	SUMMARY	APPLICABILITY
FRAMEWORK		
Environmental	This policy subjects all developments and project to environmental assessment and	Consideration of all possible impacts
Policy	provides guideline for the Environmental Assessment.	and incorporate them in the
framework		development stages
(1995)		
National Solid	The strategy to control and manage solid waste in Namibia	Solid waste dumped at the site
Waste Strategy		
Regulations	Promotes the Safety and Health of employees at the work place	Employees subjected to noise and
Related to the		dust
Health and		
Safety of		
Employees at		
Work. Reg No.		
156		
Public Health	To Protect the public from nuisance and states that no person shall cause a nuisance	Application of proper mitigation
and	or shall suffer to exist on any land or premises owned or occupied by him or of	measure to prevent aesthetic
Environmental	which he is in charge any nuisance or other condition liable to be injurious or	pollution and water pollution
Act No. 1 of 2015	dangerous to health.	

REGULATORY	SUMMARY	APPLICABILITY
FRAMEWORK		
Labour Act No.	This Act outlines the labour laws which encompass protection and safety of	This project will require labour
11 of 2007	employees at work.	during its operational stage and
		decommissioning stage.
Regional	The Regional Councils Act legislates the establishment of Regional Councils that	Observe the regional by laws
Council Act,	are responsible for the planning and coordination of regional policies and	
1992 (Act No. 22	development. The main objective of this Act is to initiate, supervise, manage and	
of 1992)	evaluate development at regional level.	
Local	provide for the determination, for purposes of local government, of local authority	ETC is governed under the local
Authorities Act,	councils; the establishment of such local authority councils; and to define the	authority, which gives ETC
1992 (ACT NO.	powers, duties and functions of local authority councils; and to provide for incidental	jurisdiction on Eenhana Townland
23 OF 1992)	matters.	
Water Act No,	All water resources belong to the State. It prevents pollution and promotes the	Prevention of discharging
54 of 1956	sustainable utilization of the resource	contaminated water at unauthorised
		places
Soil	To promotes the conservation of soil, prevention of soil erosion	Uncontrolled movement of heavy
Conservation		vehicles and truck at areas

REGULATORY	SUMMARY	APPLICABILITY
FRAMEWORK		
Act No. 76 of		surrounding the site may cause land
1969		degradation
Water Resource	The Act stipulates the prevention of both Surface and Ground water sources.	Possibility of surface and
Management		groundwater contamination.
Act No.11 of		
2011		
National	The Act gives provision of the protection and conservation of places and objects	There were no heritage features
Heritage Act	with heritage significance.	identified on site or within the close
No.27 of 2004		vicinity of the site.

Chapter 6. PUBLIC CONSULTATION

The EMA requires that the EIA process include a robust and comprehensive public consultation. Public consultation is essential because it gives the public particularly Interested and Affected Parties (I&APs) an opportunity to review the project, identify potential socio-economic and environmental concerns, and propose mitigation measures. It also captures local and traditional knowledge that the Environmental Assessment Practitioner (EAP) may not possess, improving the quality and relevance of impact identification and management.

6.1. Newspaper Adverts

The EMA requires that, the project must be advertised into two (2) daily newspapers that are widely circulated in the country. The project was advertised for two consecutive weeks in the Namibian and the NewEra newspaper the two biggest daily newspaper in the country (Table 4)

Table 4. Days of Newspaper Adverts

Newspaper	Date advertised
NewEra	2 nd & 9 th July 2019
The Namibian	2 nd & 9 th July 2019

Upon seeing the adverts, the public was supposed to request the background information documents which later a scoping report was to be shared with them.

6.2. Public Meeting

The Comment and Response Report is attached under **Annex 2**.

Chapter 7. ENVIROMENTAL AND SOCIAL IMPACT ASSESSMENT

7.1. Introduction

This chapter outlines the potential impacts (negative and positive) associated with construction and operation of the solid waste. The identified impacts are categorized into three components: impacts on the biophysical environment; Impacts on the health and safety; and impacts on socio-economic. It further provide the criteria used for impact assessment. The developed Environmental Social Management Plan (ESMP) for the project is a living document. Hence, impacts that could be identified in future will necessitate an amendment to the ESMP.

7.2. Impact Identification

Potential impacts were identified in accordance with the key Environmental Social Indicators (ESI)² and using literature review, site assessment and public participation process and experience for Red-Dune Consulting (see Table 5).

Table 5. Impact identification

Component	Impact	Description	Project	Impact
			Phase	Туре
Bio-Physical Environment	Loss of habitat	The clearing of land for site preparation	Constructi	Negative
	and	and the occupation of the site itself can	on	
	Biodiversity	result in the direct loss of habitat for local		
		flora and fauna. This may lead to a		
		reduction in biodiversity, as species that		
		depend on the specific habitat may be		
		forced to relocate		
	Dust emission	Land clearing, digging and excavation of	Constructi	Negative
		trenches, movement of vehicles and	on	
		heavy machinery on project sites may		
		create fugitive dust. Uncoordinated /		
		reckless driving on gravels roads could		
		cause low visibility to other road users.		

 $^{^2}$ Guidance Note UNDP Social and Environmental Standards Social and Environmental Assessment and Management July 2022

Component	Impact	Description	Project	Impact
			Phase	Type
		Dust can not only pose health risks to		
		workers, leading to respiratory issues,		
		but it can also affect vegetation, reducing		
		air quality and the overall environment's		
		health.		
	Land	Site preparation activities, such as	Constructi	Negative
	degradation /	excavation and the movement of heavy	on	
	Soil erosion	machinery, can result in soil disturbance		
		and degradation. This includes		
		compaction, erosion, and loss of soil		
		fertility. The removal of vegetation		
		during site clearing can also leave the		
		soil vulnerable to erosion, reducing the		
		land's ability to support future vegetation		
		growth and impacting local ecosystems.		
	Noise and	The operation of heavy machineries can	Constructi	Negative
	vibration	produce significant noise, which may	on	
		disturb nearby communities. Prolonged		
		exposure to high noise levels can have		
		detrimental effects on the health of		
		workers and the surrounding population,		
		including hearing loss and increased		
		stress levels.		
	Traffic	The operation of vehicles and	Constructi	Negative
	emission	machineries can contribute to air	on	
		pollution through the emission of		
		exhaust gases of SO ₂ , CO ₂ , CO, NO _x and		
		particulates.		
	Waste	Construction produce significant amount	Constructi	Negative
	generation	of solid waste including, plastic, used	on	

Component	Impact	Description	Project	Impact
			Phase	Type
		containers and parts of worn-out		
		equipment.		
	Household	The generation of domestic solid waste	Constructi	Negative
	waste	from workers and operations on-site can	on	
		lead to pollution if not properly		
		managed. Improper disposal of waste,		
		such as plastics, food scraps, and other		
		materials, can contaminate the local		
		environment and pose a risk to human		
		health.		
	Soil and water	The use of heavy vehicles and equipment	Constructi	Negative
	pollution	involves the use of oils, grease, and	on and	
		lubricants that, if not properly managed,	Operation	
		can leak into the ground and contaminate		
		groundwater sources.		
	Aquifer	Ohangwena Region is a relatively dry	Constructi	Negative
	Disturbance	and dependant on underground water.	on and	
		Hence careful handling of contaminant	Operation	
		will be required to ensure the shallow		
		aquifers are not polluted are not		
		disturbed.		
	Safety risk	Accidents from collision of construction	Constructi	Negative
		vehicles, in appropriated use of heavy	on	
		machineries could result into		
afety		occupational injuries.		
S pu	Health risks	Risks of hearing impairment from	Constructi	Negative
Health and Safety		excessive noise, respiratory risks from	on and	
		dust inhalation. New social relationships	Operation	
		are often a recipe for spreading of		
		communicable diseases and sexually		
		transmitted diseases such as HIV/AIDS.		

Component	Impact	Description	Project	Impact
			Phase	Type
		Furthermore, alcohol and drug use could		
		be prevalent during construction and		
		workers are susceptible to vermin and		
		diseases during operation.		
		Furthermore, the bush working		
		environment makes workers to be prone		
		to venomous insect and snake bites		
		which may lead to fatalities.		
	Hazardous	Heavy vehicles consume significant	Constructi	Negative
	Impact	amounts of oil, and the handling of	on and	
		hydrocarbons will occur on-site. The	Operation	
		area where grease, oils, lubricants, and		
		fuel are managed must be properly		
		designed to prevent soil contamination,		
		which could potentially affect both the		
		soil and underground water.		
	Visual impacts	Poor housing keeping on site	Constructi	Negative
			on and	
			Operation	
	Employment	Namibia is facing high unemployment,	Constructi	Positive
±	creation	particularly among the youth. Every	on and	
mer		employment, mainly short-term during	Operation	
iron		construction will contribute to socio-		
Social Environment		economic upliftment of the community.		
cial	Increase in	Construction provides an opportunity for	Constructi	Positive
So	local economy	local people	on and	
			Operation	
	Heritage and	Digging and excavation have the	Constructi	Negative
	Archaeological	potential to uncover archaeological	on	
	Resource	materials. Therefore, raising awareness		

Component	Impact	Description	Project	Impact
			Phase	Type
		about the possibility of chance finds is		
		necessary to prevent potential damage.		

7.3. Criterial for impact assessment

The criteria used to assess the impacts and the method for determining their significance are outlined in Table 7 below. This process aligns with international best practices and adheres to the Environmental Impact Assessment (EIA) Regulations under the Environmental Management Act of 2007 (Government Gazette No. 4878).

The core principle of the impact assessment follows a mitigation hierarchy, which aims to first avoid negative impacts through preventative measures, then minimize those impacts to acceptable levels, and, if neither of these options is feasible, to remedy or compensate for the impact.

Table 6. Criteria for Impact Assessment

Risk Event	Rating Description of the risk that may lead to an Impact				
Probability	The probabil	impact may occur under the following analysis			
	1		Improbable (Low likelihood)		
	2		Low probability		
	3 Probable (Likely to occur)				
	4		Highly Probable (Most likely)		
	5		Definite (Impact will occur irrespective of the applied		
			mitigation measure)		
Confidence	The confider	nce level	of occurrence in the prediction, based on available		
level	knowledge				
	L		Low = limited information		
	M		Medium = moderate information		
	Н		High = sufficient information		
Significance	Severity	Rating	None (Based on the available information, the		
	Negligible	1	potential impact is found to not have a significant		
			impact)		

Risk Event	Rating		Description of the risk that may lead to an Impact	
	Low	2	Low (The presence of the impact's magnitude is	
			expected to be temporal or localized, that may not	
			require alteration to the operation of the project	
	Medium	3	Medium (This impact is probable, limited in scale,	
			expected to be of short term / temporary, can be	
			avoided, managed and or mitigated with simple	
			mitigation measures.)	
	High	4	High (The impact is definite, mostly predictable,	
			temporal, can be local, regional or national and in	
			long term and reversible. These are impacts that ma	
			affect human rights, lands, natural resources,	
			traditional livelihood, critical ecosystem services. The	
			severity of these impact are more limited than sever	
			impacts.)	
	Severe	5	Severe (The impact is definite, it has significant	
			adverse impacts on human population and or / the	
			environment which are of large-scale magnitude and	
			or spatial extend such as large geographic area, large	
			number of people or transboundary nature. The	
			impact duration is long term, permanent and often	
			irreversible. Impacts include displacement of human,	
			destruction of critical ecological systems and or	
			cultural and heritage sites etc. The impact could have	
			a no-go implication unless the project is re-designed	
			or proper mitigation can practically be applied.)	
Duration	Time duration	on of the in	npacts	
	1		Immediate	
	2		Short-term (0-5 years)	
	3		Medium-term (5-15 years)	
	4		Long-term (more than 15 years	
	5		Permanent	
Scale	The geograp	hical scale	of the impact	

Risk Event	Rating	Description of the risk that may lead to an Impact
	1	Site specific
	2	Local
	3	Regional
	4	National
	5	International

7.4. Risk Assessment

The significance of the impact was determined using a risk matrix, as shown in Table 7. A five-by-five matrix was applied, where the severity of the impact was categorized and assigned scores ranging from 1 to 5: Improbable (1), Low (2), Medium (3), High (4), and Severe (5). Similarly, the likelihood of the impact occurring was assigned scores as follows: Improbable (1), Low Likely (2), Probable (3), High Probability (4), and Definite (5). The overall impact rating was then calculated by multiplying the scores for impact severity and likelihood.

Table 7. Risk assessment matrix³

	5	5	10	15	20	25
	Definite	Low	Medium	High	Severe	Severe
OOC	4	4	8	12	16	20
	High Probability	Low	Medium	High	High	Severe
LIKELIHOOD	3	3	6	9	12	15
	Probable	Low	Medium	Medium	High	High
LIKI	2	2	4	6	8	10
	Low	Low	Low	Medium	Medium	Medium
	1	1	2	3	4	5
	Improbable	Negligible	Low	Low	Low	Low
		1 Negligible	2 Minor	3 Medium	4 High	5 Severe
		IMPACT SEVERITY / CONSEQUENCE				
		Negligible	Low	Medium	High	Severe

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³ Risk Management Guideline for the BC Public Sector (Province of British Columbia Risk Management Branch and Government Security Office 2012)

7.5. Mitigation Hierarchy

Best practises call for mitigation measures to follow a mitigation hierarchy that favours (i) avoidance of potential adverse impacts, and where avoidance is not possible, then (ii) minimization and reduction; where adverse residual impacts remain, then (iii) mitigation measures need to be applied, and, as a last resort, (iv) measures to offset impacts that cannot be appropriately mitigated (*see Figure 7 below*).

According to EIS regulations, the objectives mitigations are to;

- Find environmental ways of doing thing
- Promote environmental benefits of the project
- Avoid, Minimise or remedy negative impacts and
- Ensure that residual negative impacts are within acceptable levels,

Furthermore, during consideration of the mitigation measure, the following mitigation hierarchy was followed.

- Avoid the negative impact through preventative means,
- Minimise the negative impacts to acceptable low levels and,
- If the above two are not possible, remedy or compensate the impact.

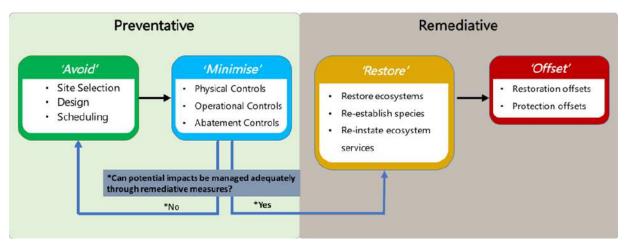


Figure 7. Mitigation Hierarchy Source ⁴

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⁴ Cross-Sector Biodiversity Initiative (CSBI). (2015). A Cross-sector Guide for Implementing the Mitigation Hierarchy (p.9)

7.6. Pre-Construction

PRE-CONSTRUCTION PHASE				
Potential Environmental / Social Impact	Mitigation Measures	Significance of the Impact		
Acceptance of the project by the public	Two advert were placed into two daily	Type	-VE	
The Environmental Management Act (Act No. 7 of	newspapers for two consecutive week	Severity	High	
2007) requires that, public and stakeholder are	2. A Background information documents was	Scale / Extend	National	
consulted during the EIA process	given to the registers I&APs	Probability	Definite	
	3. A public meeting was held at Eenhana,	Confidence level	High	
	Ekolola settlement	Without Mitigation	High	
		With Mitigation	Low	

7.7. Bio-Physical Environmental Impact

CONSTRUCTION PHASE				
Potential Environmental / Social Impact	Mitigation Measures	Significance of the Impact		
Loss of Flora	1. Some of the vegetation requires permit from	Type	-VE	
Eenhana town is situated in relatively densely vegetated	Ministry of Agriculture Water and Forestry to	Severity	High	
sub-tropical forest. The proposed site is rich in	be cut down. The ECC must be issued with	Scale / Extend	Site Specific	
vegetation, with some protected species in Namibia and	this condition before operation starts	Probability	Definite	
shall be lost during clearing. However, the trees and	2. Clearing of vegetation must strictly be limited	Confidence level	High	
shrubs are evenly distributed in the most part of Eenhana	to the area within the sand mining site;	Without	High	
constituency, and Ohangwena region at large. It is not		Mitigation		

CONSTRUCTION PHASE				
Potential Environmental / Social Impact	nvironmental / Social Impact Mitigation Measures		Impact	
expected that clearing vegetation within the proposed	3. Mature trees that are cut down may be	With Mitigation	Medium	
are poses a significant impact to the conservation of	donated to Eenhana Vocational Training in			
flora.	College for carpentry.			
Loss of Fauna	1. Fence off the perimeter with a diamond mesh	Type	-VE	
Land use in communal area is mainly for communal	wire;	Severity	Medium	
farming which involves farming with domestic animals	2. Employ a security who shall protect the fence	Scale / Extend	Site Specific	
such as Goats, Cattle and Donkeys and cultivating	from theft, vandalism and ensure that, the	Probability	Probable	
Omahangu crops. The are no wild animals in the	gate is locked to prevent animals from	Confidence level	High	
surrounding although small wild animals such as	entering the site	Without	Medium	
Rabbits and crawling animals may be present.	3. Do not kill animal, unless such animals poses	Mitigation		
	eminent danger to humans	With Mitigation	Low	
Visual Effect	1. Contractors must ensure good housekeeping	Type	-VE	
Change of visual and aesthetic value as a result	during construction	Severity	Low	
transformed landscapes and landfill cells construction as	2. Overburden soil must be well stacked	Scale / Extend	Local	
well as other construction activities	3. All building must use dull paint to blend in	Probability	Probable	
	with vegetation	Confidence level	High	
		Without	High	
		Mitigation		
		With Mitigation	Medium	

CONSTRUCTION PHASE				
Potential Environmental / Social Impact	Mitigation Measures	Significance of the	Impact	
Surface and Ground Water Pollution	1. Fueling for heavy vehicle on site shall be	Type	-VE	
Ohangwena region is home to Ohangwena aquifer and	well coordinated at designated places	Severity	High	
due to aridity of the of area, ground water is paramount	2. Stationary vehicles must be provided with	Scale / Extend	Site Specific	
and must be protected. The average depth of the top	drip tray to capture oil, lubricants and	Probability	Definite	
Ohangwena aquifer is found at 235m deep. The recharge	hydraulic fluids leakages	Confidence level	High	
of the aquifer is located in Angola. Fuel, oil and	3. All vehicle and machinery must be well	Without	High	
lubricants from heavy vehicle has the potential to pollute	service to avoid leakages	Mitigation		
land and consequently water sources.	4. Provide and train on oil spill emergency response	With Mitigation	Low	
	5. Servicing of vehicles and machinery must not take place on site			
Land Degradation	1. Movement of heavy vehicles must be	Type	-VE	
The uncontrolled movement of heavy machinery at the	coordinated and restricted to be within the	Severity	High	
project site as well as on access loads may cause land	site and on access roads	Scale / Extend	Site Specific	
degradation.		Probability	Definite	
		Confidence level	High	
		Without	High	
		Mitigation		
		With Mitigation	Low	

CONSTRUCTION PHASE				
Potential Environmental / Social Impact	Mitigation Measures	Significance of the Impact		
Waste Generation	1. Provide Skip bins and dustbins to collect	Type	-VE	
General waste during construction includes, building	waste and be disposed of at an existing	Severity	Medium	
rubbles, planks, metal offcuts, cement, wires and	wasted disposal site	Scale / Extend	Site Specific	
household waste such as plastic.	2. Do not burry waste on site	Probability	Definite	
		Confidence level	High	
		Without	High	
		Mitigation		
		With Mitigation	Low	
Archaeology or Heritage Impacts	1. Heritage, human remains or artefacts find	Type	-VE	
	must immediately be cordoned off and	Severity	High	
The impact on archaeological or cultural site is	reported to the National Museum (+264 61	Scale / Extend	Site Specific	
negligible however "a chance find must be implemented	276800) or the National Forensic	Probability	Definite	
to ensure compliance to the constitutional requirement	Laboratory (+264 61 240461); 2. No artefacts must be removed or be	Confidence level	High	
	interfered with prior to authorization from	Without	High	
	the Namibian National Heritage Council	Mitigation		
	(NHC).	With Mitigation	Low	

7.8. Biophysical

OPERATIONAL PHASE					
Potential Environmental / Social	Mitigation Measures	Significance of the Impact			
Impact					
Fauna	1. Ensure that there is security to guard the perimeter	Type	-VE		
It has been observed that domestic animals	who must lock the gate every time	Severity	High		
roams around waste disposal site and end	2. No animal including pets must be allowed in the	Scale / Extend	Site Specific		
up easting plastics and other waste This is	landfill site.	Probability	Definite		
deadly to animals.		Confidence level	High		
		Without Mitigation	High		
		With Mitigation	Low		
Surface and Ground Water Pollution	1. Implement a 'Cover System' for leachate	Type	-VE		
Waste disposal sites are notoriously	management as explained in this report;	Severity	High		
known for water pollution through run off	2. The Cover System should be supported by lining the	Scale / Extend	Local		
and leachate. Decomposed materials such	base with a high density polyethylene (HDPE) and	Probability	Definite		
as cans, batteries, electricity appliances	or;	Confidence level	High		
and many other noxious materials find	3. Hire a qualified company to Install a 'Bottom Liner	Without Mitigation	High		
their way into water stream from surface	system' for leachate collection as explained in this	With Mitigation	Low		
run off when there is no proper storm	report	0			
water as well as into ground water through					
percolation of leachate. Large scale					

OPERATIONAL PHASE				
Potential Environmental / Social	Potential Environmental / Social Mitigation Measures		Significance of the Impact	
Impact				
landfill, prevent leachate through the	4. Install a leakage detection and collection layer of			
installation of lining materials and	150mm compacted clay liner, 150mm bases			
leachate drainage collection systems. Two	preparation layer;			
option are available for leachate	5. Connect the leachate collection into the leachate			
management, which are both effective	drainage pipe network which drains into a leachate			
given the population of the town.	collection tank / pond.			
	6. The collected leachate must be treated through a			
	combination of biological and chemical treatment as			
	explained earlier;			
	7. To prevent surface water pollution, construct storm			
	water system to prevent run of water from entering			
	the site;			
	8. Construct a storm water system that prevent water to			
	flow from the site into the environmental, but			
	channel this water a leachate collection pond.			
Visual Impacts	1. All recyclable material should be recycled, explore	Type	-VE	
Visual impact is the immediate and most	memorandum of understanding with recycling	Severity	Medium	
common impact associated with waste	companies;	Scale / Extend	Site Specific	

OPERATIONAL PHASE				
Potential Environmental / Social	Potential Environmental / Social Mitigation Measures		Significance of the Impact	
Impact				
disposal. Plastics and paper that are easily	2.	Only appropriated vehicles with mesh that prevent	Probability	Definite
blown away by wind litters the		waste from being blown away can be used to	Confidence level	High
surrounding of the waste site and becomes		transport waste	Without Mitigation	High
an eye shore. Inappropriate transportation	3.	Implement daily filling and compaction to prevent	With Mitigation	Medium
of waste by contractors lead to waste		waste from being blown away;		
falling and be scattered alongside the	4.	Leave a buffer zone of undisturbed vegetation to act		
access road to the waste site. Hence is		as wind breakers and protect the site from wind		
important to ensure a systematic	5.	In the absence of compaction, burn the waste in an		
management of visual impact.		appropriate manner that does not risk fire outbreaks		
Air Pollution	1.	Implement daily waste compaction to prevent bad	Туре	-VE
Waste disposal site are associated with		odours	Severity	High
the decomposition of organic material by	2.	Spray the access road using grey water to suppress	Scale / Extend	Local
bacteria that causes unpleased odours as		dust;	Probability	Definite
well as smoke from burning of waste.	3.	Install speed humps to limit speed which must be	Confidence level	High
While large scale landfills are known to		through the road passing through Ekolola to the	Without Mitigation	High
emit greenhouse gases (Methane and		site	With Mitigation	Low
Carbon Dioxide) which contribute to	4.	Keep a complaint register for dust impact	8	
global warming.	5.	If necessary, explore the harvesting of Methane		

OPERATIONAL PHASE			
Potential Environmental / Social	Mitigation Measures	Significance of the In	npact
Impact			
The current access road is gravel and			
waste transportation shall produce dust.			
Land Degradation	1. Construct a storm water management to avoid erosion.	Туре	-VE
After the construction of the landfill, the		Severity	Medium
landscape of the area shall change which		Scale / Extend	Site Specific
impact drainage and may cause soil		Probability	Probable
erosion by run off		Confidence level	High
		Without Mitigation	Medium
		With Mitigation	Low

7.9. Socio-Economics

CONSTRUCTION AND OPERATION			
Potential Environmental / Social Impact	Mitigation Measures	Significance of the Impac	et
Traffic	1. Trucks must be installed with a rotating	Туре	-VE
During Construction, there shall be frequent	headlight beam lights	Severity	Medium
movement of truck to and from the site. These		Scale / Extend	Local

CONSTRUCTION AND OPERATION			
Potential Environmental / Social Impact	Mitigation Measures	Significance of the Imp	pact
trucks have the potential to destroy the gravel,	2. Truck must maintain a low speed to prevent	Probability	Definite
make excessive dust which is nuisance to nearby	excessive dust	Confidence level	High
houses on the road, and increase risk of accident.	3. The road must be maintained by scrapping and compacting4. Install warming signs where necessary	Without Mitigation With Mitigation	Medium Low
Employment	1. Employment opportunities should be given	Туре	+VE
With high rate of unemployment, every project would attract job seekers. Unfair labor practices may result in disputes that consequently leads to industrial actions. Project stages where foreigner are required, the contractor must ensure energy transfer through understand.	 to locals for all general work 2. Provide working contract to employees 3. Gender mainstreaming must be considered during recruitment process 	Severity Scale / Extend Probability Confidence level Without Mitigation With Mitigation	Medium Local Definite High Medium Low
7.9.1. HIV/AIDS, Alcohol and Drug abuse Employment opportunity attract the influx of people to a to project sites. The income earned may lead to alcohol and drug abuse and enhance prostitutions	 Provide awareness to the employees on danger of alcohol and drug abuse Provide Condoms at friendly site on site, such as toilets 	Type Severity Scale / Extend Probability Confidence level	-VE Medium Local Definite High

CONSTRUCTION AND OPERATION			
Potential Environmental / Social Impact	Mitigation Measures	Significance of the Impa	ct
		Without Mitigation	Medium
		With Mitigation	Medium
Health and Safety	Health	Туре	-VE
The Regulations Relating to the Health and	1. Employees must NOT be exposed to noise	Severity	Medium
Safety of Employees at Work, made under	levels above the required -85dB (A) limit		
Labour Act of 1992 (Act No. 6 of 1992) place	over a period of 8 hours.	Scale / Extend	Local
legal duty on employers to provide a health	2. Adhere to the Labour act, non-toxic human	Probability	Definite
and safe working environment to the	dust exposure levels may not exceed	Confidence level	High
employees and any person other than the	5mg/m3 for respiratory dust and 15mg/m3	Without Mitigation	Medium
employees who might be affected by their	for total dust.	With Mitigation	Low
operations. Heavy vehicle makes excessive	3. Supply clean drinking water to the site, such		
noise during loading, Excavating and	as portable water tank;		
transportation of material. The site is secluded	4. There must be two suitable, clean and user-		
and out of leach for noise pollution to general	friendly ablution facilities, with separate		
public. There are no public installations	Male and female toilets.		
around the area that maybe the noise receptor.	5. Ensure daily compaction of waste to		
Regardless, the employees are subjected to	prevent decomposition that may attract		
noise, dust, vermin, diseases and injuries	odour, flies, rodents, which causes vermin		
during construction.	and diseases		

CONSTRUCTION AND OPERATION			
Potential Environmental / Social Impact	Mitigation Measures	Significance of the Impac	t
	6. Provide employees with adequate PPE		
	7. Avoid waste compaction during extreme		
	windy condition		
	Safety		
	8. Ensure that every employee went through		
	an induction course about safety;		
	9. Employees must be equipped with all		
	necessary Personal Protective Equipment		
	(PPE). These includes, Helmet, Overall,		
	Safety Shoes, Safety Glasses, Gloves,		
	Earmuff etc;		
	10. During operation, minor accidents are		
	eminent, hence there must be a first aid kit;		
	11. Only qualified and licenced personnel must		
	be allowed to operate machinery and		
	vehicles;		
	12. No employee must be allowed to be onsite		
	without PPE;		

CONSTRUCTION AND OPERATION			
Potential Environmental / Social Impact	ntial Environmental / Social Impact Mitigation Measures Significance of the Impact		t
	 13. Adequate safety signs must be displayed on site; 14. To avoid field fires, smoking is only permitted at designated sites with low risk to fire; 15. Do not allow illegal recyclers on site; 		
Improved Infrastructure development	1. Provision of leachate management system	Туре	+VE
The development of the new waste disposal site aims to replace an old site, which is not	2. Public satisfaction from the complaints of the current site	Severity	Medium
environmentally sustainable		Scale / Extend	Local
		Probability	Definite
		Confidence level	High
		Without Mitigation	Medium
		With Mitigation	Low

7.10. Cumulative Impacts

Cumulative Impact are possible environmental and social impacts on the receptor caused by the combination effects of more than one project/development. Cumulative impact assessment aims to identify the environmental threats of the proposed project in combination with the existing similar project in the area. There was no significant cumulative impact identified.

7.11. Environmental Management Plans

The Environmental Management Plan is attached in Appendix 5. This Environmental Management Plan (EMP) is a risk strategy that contains logical framework, monitoring programme, mitigation measures, and management control strategies to minimize environmental impacts to be implemented during the project phases. It further stipulates the roles and responsibility of persons involved in the project.

7.12. Decommissioning

It is envisioned that the proposed site shall have a lifespan of more than 50 years. By then, operational procedures may change hence it is recommended that a comprehensive decommissioning plan be undertaken during that time. In general, the decommissioning of the site shall follow the following guidelines;

- Site Clean up
- Site Grading and Compaction
- Final Cover
- Storm water control
- Location records
- Site Access after closure
- Summary of the site closure
- Site Monitoring
- Future use of site

Chapter 8. CONCLUSION AND RECOMMENDATION

8.1. Conclusion

The environmental assessment has identified all possible impacts that may be caused by the landfill site. In accordance with the proposed practical mitigation measures, potential impacts shall have low significance to the environment. Often, landfill sites pose dire threat to water pollution, littering and visual impacts. These major threats were successfully addressed; a leachate management system is recommended to mitigate the effect of water pollution. The proposed site is still a virgin land which have some protected trees, procedures for removal of such trees is recommended.

8.2. Recommendation

It is recommended that the project is approved and be issued with and environmental Clearance Certificate, but subject to and not limited to the following conditions:

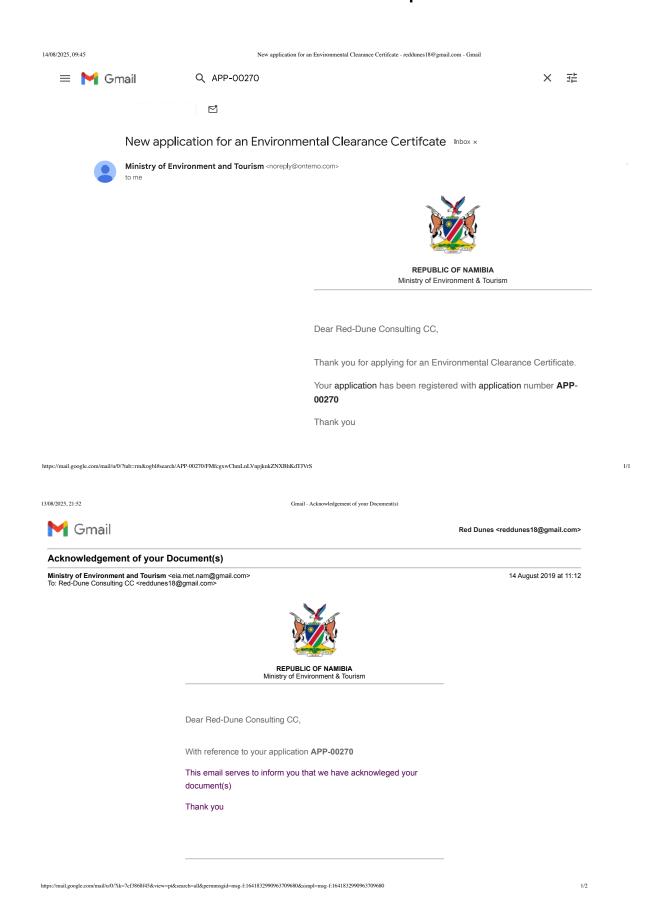
- Proper implementation of the Environmental Management Plan / mitigation measure to ensure environmental protection.
- Acquire permit from the Ministry of Agriculture Water and Forestry for vegetation clearing, especially the protected species.
- Hire competed professional individual or companies to install the leachate management system.
- Implement ground water monitoring system around the site and.
- Undertake bi-annual environmental audit, which must include groundwater analysis.

Chapter 9. REFERENCES AND ANNEXURES

9.1. References

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- 8. Tholoana Sustainable Development and Environmental Consultants 2014., Final Environmental Impact Assessment Report For The Proposed Maluti-A-Phofung Landfill Site.
- 9. Tim W., (2016)., How to Decommission or Close an Open Dumpsite in an Environmental Sound Manner.
- 10. Zenas Engineering PLC., (2010). Dilla City Administration Landfill Site Environmental Impact Assessment Report.

9.2. Annex 1. Proof of submission and follow ups





Red Dunes <reddunes18@gmail.com>

Project APP-00270 for waste disposal site for Eenhana

Red Dunes <reddunes18@gmail.com>
To: damian nchindo <damian.nchindo@met.gov.na>

3 August 2020 at 22:28

1/1

Dear Damia

The above mentioned application (APP-00270) was submitted on 16 July 2019. It is over a YEAR now. Can I re-upload it as new?

Kindly help Regards Ipeinge

9.3. Annex 2. Public Consultations



PUBLIC CONSULTATION

FOR

THE PROPOSED NEW WASTE DISPOAL SITE FOR EENHANA TOWN COUNCIL

IN EENHANA TOWNLAND



11 JULY 2019

CONSULTANT:

Mr. Ipeinge Mundjulu (BSC, MSc) Red-Dune Consulting CC P O Box 27623 Windhoek Cell: +264 81 147 7889 PROPONENT Eenhana Town Council Private Bag 8007, Eenhana

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2.	Existing Waste Disposal Site	3
3.	New waste disposal site	3
4.	Comment Ouestion and Response	4

1. Introduction

A public meeting was held at Eenhana Town on 11th July 2019. The meeting was jointly organised by the office of Eenhana Town Council (ETC) and Red-Dune Consulting. The political heads for Eenhana Town Council attended the meeting. The Chief Executive office, Mr. Walde Ndevashiya introduced the political leadership that were present and informed the public about the purpose of the meeting. He briefly informed the meeting about increase in development of the town and the need for supporting infrastructure to ensure sustainable development. He mentioned that, development in terms of building infrastructures requires building sand, while servicing of land requires gravel for the provisions of roads and elevation. Hence the council felt it fit and environmentally sustainable to source these material by itself for its development.

He further informed the meeting that, the council was advised by the office of the Environmental Commissioner that the current waste disposal site is not suitable and the town should find an alternative site for the waste disposal. The council had then found a new site in Ekolola, within the townland.

The establishment of a waste disposal site and sand mining are listed activities under the Environment Management Act 2007, (Act No 7 of 2007) that cannot be undertaken without an Environmental Clearance Certificate (ECC). The process of obtaining an ECC requires that the public is well consulted about the proposed activities, and that they are not aggrieved. It with this reason that, ETC have appointed Mr. Ipeinge Mundjulu for Red-Dune Consulting CC, an environmental consultant to undertake the Environmental Impact Assessment (EIA) process.

The meeting was then officially opened by the Councillor, his Workshop the Major for Eenhana Town Council, where he welcomed everyone at the meeting and urge participant to express their views without fear.

Mr. Ipeinge for Red-Dune gave an overview of the Environmental Management Act on listed activities and public participation process. He then informed the meeting that he was contracted by ETC for the following activities;

1. Develop Environmental Management Plan and Rehabilitation Plan for existing gravel burrow pits at Ohandiba village,

- 2. Develop an Environmental Management Plan and Closure plan for the existing waste disposal site
- 3. Undertake an Environmental Impact Assessment for proposed new waste disposal site and
- 4. Undertake an Environmental Impact assessment for the proposed Sand Mining site in Eenhana Townland

Mr. Ipeinge briefed the meeting on the on the outcome of the site assessment. The following briefing, comment and responses are those concerning the new waste disposal site.

2. Existing Waste Disposal Site

The current waste disposal site would be closed and rehabilitated as recommended by the Ministry of Environment and Tourism (MET). A closure and rehabilitation plan would be developed for approval by MET.

3. New waste disposal site

ETC has found a new site for the waste disposal at Ekolola within the townland. The site is already surveyed. The site is far from household as it is on the periphery of town. No one must be allowed to settle in close proximity with the site. ETC plans to construct a conventional waste site which shall be lined for the containment of leachate.

The proposed site is rich in vegetation where some trees are protected which requires ETC to obtain a permit from Ministry of Agriculture Water and Forestry to clear the protected vegetation.

4. Comment Question and Response

Name	Comment / Question	Response
Mr Haufiku (HM) (Eenhana)	Will the proposed site be within the town	Yes
	boundary	
Mr. Sikongo Samuel (HM) (Ohandiba)	The current waste disposal site is located in	The comment is well noted,
	Ohandiba, although the village is now within	
	the town boundary, household in the near	
	surrounding are complaining about smoke	
	during the burning of waste. So we welcome	
	the ETC plans to relocate the site	
Sikongo Samuel	You mentioned that, the site must be at least	A 100m is an interim resolution taken by
	100m away from residential places. Is that	MET to ensure development of any nature
	not too short, because we are going to be	is atleast 100m away from the households.
	affected by the smoke and bad odors	However, for the waste disposal site, it is
		recommended that the should be in a radius
		of 1km from residential places. It is unlikely
		that 1km may be achieved due to the setup
		of northern homestead. However, due to
		wind dispersion, it is expected that the
		smoke would not have impact on the
		surrounding area. One of the mitigation

Name	Comment / Question	Response
		measure to prevent bad odor shall include
		the daily filling and compaction waste.
Angelina Nghitotonanye	The effect of sand mining on village roads	The development of the new site does not
	shall be compensated with the upgrade of	directly affect community like sand mining
	one village to gravel road. How about us,	on village roads. Issued of concern such as
	close to the proposed waste site? What are	bad odors and smoke are well addressed in
	going to be compensated with?	the Environmental Management Plan
		(EMP). For example, to prevent bad odors,
		frequent waste compaction shall be
		undertaken.
Jackson Mathew	How will the following effect be addressed?	It is inevitable that, odor shall always be
	Odor, dust from transportations,	part of the waste disposal or landfill due to
	inappropriate transportation of waste which	bacteria decomposing material. The impact
	shall fall of in our surrounding	shall be minimized through frequent filling
		and compaction.
		Dust impact from transportation would be
		minimized by frequent application of dust
		suppression such as water spray and any
		other possible dust suppression technology.
Mr. Nafimane Julius Kashihakumwa	We have silted wells that required	The issue can be discussed with ETC.
	deepening, can we trade with ETC, and in	

Name	Comment / Question	Response		
	return, ETC deepens our silted sites and we			
	give them sand			
Ms. Ester, HM, Ohaihanya	I would like to add to the possible litter	ETC. The council had outsourced the waste		
	during waste transportation, that issue must	disposal contract and is currently running a		
	be addressed	tender for companies to apply. The council		
		had put down strict measure that must be		
		met by contractors, such as the type of		
		vehicles to be used and the type of mesh		
		required to carry waste, especially easily		
		blown waste such as paper and plastic.		
Silka Haihambo	We do not have enough Toilet in Ekolola,	Not part of the EIA, councillor to organise		
	some people were given some were not	another meeting to raise issues pertaining to		
	given. Secondly, give provision for those that	these.		
	can build their house.			
ETC	We have perhaps exhausted the issues perta	ining to the proposed development and the		
	Environmental Impact Assessment to follow.	The council shall organise another meeting		
	for you to raise your concerns and perhaps address them. We thank you for coming and for			
	actively participating without fear or favour.			
Hon Councillor of Ondobe Closed the m	Hon Councillor of Ondobe Closed the meeting.			

 $\mathbf{HM} = \mathbf{Headman}$

RP = Headman Representative

HIATUS FROM PAGE 1

Ndeitunga told the media last week that the operation would take a break on Sunday 30 June, though the date of commencement is yet to be announced

About 90% of members of the public can attest to the good brought on by the operation, Shikongo said.

According to the Khomas commander, who has vowed to rid the capital of crime, drug possession topped the list of the most prominent crimes during the first phase of the just-ended

Second on the list was cellphone grabbing, followed by a number of drunk-driving incidents, he added.

The operation resulted in a reduction in the crime rate as it deterred notorious criminals and those intending to commit crimes.

Shikongo said the operation's image was tainted by assault cases levelled against some of its members.

"The operation is meant to police everywhere," he said, addressing critics who often question why police officers are more conspicuous in Katutura.

He explained that the exercise is not meant to discriminate against others, and that it is informed by crime statistics.

"We feel we haven't done enough in Katutura; some people complain of not having seen our presence," Shikongo said. Safety and security deputy minister Daniel

Kashikola last week issued a stern warning to criminals that security officers will remain visible.

"Do not be mistaken and think we are not there," Kashikola said.

He added that mechanisms are in place to respond to any threats or emergencies which may arise during the operation's break, and reasoned that revealing what the mechanisms are would be a security compromise.

"Communities should be confident of the country's security," the deputy minister said.



PUBLIC NOTICE: ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PRO-POSED:

> 1. WASTE DISPOSAL SITE AND, 2. SAND MINING SITE

FOR EENHANA TOWN COUNCIL, AT EENHANA TOWNLAND, OHANGWENA REGION

INVITATION TO A PUBLIC MEETING

In accordance with the Environmental Management Act (No. 7 of 2007) (EMA) and the Environmental Impact Assessment (EIA) Regulations (Government Notice No 4878 of 2012), notice is hereby given to all possible interested and affected parties (I&APs) that an application will be made to the Environmental Commissioner for an environmental clearance as

Project (s): (1) Waste Disposal Site (2) and Sand Mining Site Proponent: Eenhana Town Council Location: Eenhana Townland

Date of Public Meeting: 11 July 2019 Venue: Ekolola Public Meeting Space Time: 14H00-17H00

Deadline for submission of comments: 19 July 2019 Register as I&Aps @: reddunes18@gmail.com or Call +264 81 147 7889

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> Mr J. Nakuta, Cell: 081 127 0661 E-mail: jbnakuta@yahoo.com

KATITI FROM PAGE 1

The NIP is also saying that, if the court ruled against it on that point, it is their case that the termination of Katiti's employment contract was based on a clause in the contract which states that the agreement can be terminated by the parastatal in the event of "documented acts of dishonesty, fraud or gross negligence by the CEO in connection with the performance of his duties to the NIP".

According to the NIP, Katiti's actions as CEO were not in the best interests of the parastatal, and he perpetrated wrongful acts which are actionable, without authority or the approval of the board of directors.

The NIP says those acts only came to the knowledge of the directors in July 2017.

The N\$14 million that the NIP is demanding from Katiti includes an amount of N\$1,88 million spent on the purchase of vehicles and related expenses in terms of an agreement between the parastatal and ST Freight Services CC.

It also includes N\$7,4 million spent on buying furniture, with

related joinery costs, N\$2 million that the NIP claims to have lost due to the withdrawal of N\$7,9 million from an investment account at Old Mutual, and N\$2,7 million, which is the annual cost to the NIP as a result of the creation of the positions of general assistant, assistant OD officer and manager: process analyst.

The NIP is a state agency which handles blood testing and other pathology services. It operates 40 laboratories across the country.

The NIP board suspended Katiti in June, and terminated his contract in August last year.

In documents filed at the Windhoek High Court in May, Katiti says he was employed as NIP CEO for a fixed five-year period from 1 April 2014, at an annual salary of N\$1,5 million.

According to him, he was being paid an annual salary of N\$1,9 million when his employment with the NIP was terminated.

Katiti says the NIP is obliged to pay him N\$3,8 million – equivalent to two years of his salary – for restricting him from conducting business similar to that of his former employer for two years after his departure from the NIP.

NIP acting CEO Mecky

Nghipandulwatold The Namibian them as recommended by the she would not comment as she was not dealing with the matter.

In a telephonic interview, Katiti said his contract was approved by the NIP board, then chaired by Mandela Kapere, and that the former minister of health and social services, Bernard Haufiku, submitted it to Cabinet for endorsement.

"Let me state at the onset how regrettable it is that the board of NIP continues to knowingly waste public funds on frivolous litigation. It is wasteful and frivolous because my contract of employment, which they now claim to be invalid, was approved by the previous board, and submitted by the then minister of health and social services to Cabinet for endorsement," Katiti said.

On the NIP's claim that he should pay N\$14 million to it, Katiti said he never approved payments to ST Fright Services CC. He added that he was never a member of the NIP tender committee, and could therefore not have procured the furniture, with related joinery costs.

He further stated that he never made any withdrawals of NIP investments, but only approved

chief financial officer in terms of NIP policies.

"The investment of N\$7,9 million was made for a period of 12 months as at 4 September 2013, and had already matured by the time the withdrawal was made in June 2017," he continued.

"The entire sum of N\$7,9 million was therefore credited to the current account to pay employees salaries for the month of June 2017".

"The investments were withdrawn in accordance with policy provisions [...]. NIP was not prejudiced or compromised, nor did it suffer any financial losses," Katiti said.

The creation of the positions over which the NIP wants him to pay N\$2,7 million was approved by the board's human capital committee and by the NIP board, he noted further, commenting: "It is thus not clear why the board is trying to mislead the public, unless they do not remember their own decisions through sheer incompetence."

The NIP is being represented by Profysen Muluti, while Katiti is represented by Rauha Shipindo from the law firm Metcalfe Attorneys.

SOLDIER FROM PAGE 1

The state is alleging that David murdered Indileni, aged five, between 19 and 21 February 2017 by drowning her in the Goreangab Dam.

Her body was found in the dam on 21 February 2017. Two days earlier, David had taken their

daughter with him on what was supposed to be a visit to the shops to buy some clothing for Indileni, Thomas told the court. She never saw Indileni alive again, Thomas said.

David is charged with counts of murder, read with the provisions of the Combating of Domestic Violence Act, assault with intent to do grievous bodily harm, theft, and malicious damage to property.

In addition to the murder charge, the

prosecution is alleging that David assaulted Thomas in Windhoek on 26 January 2017, that he stole two cellphones from Thomas during December 2016, and that he also broke another cellphone of Thomas and destroyed a SIM card belonging to her during December 2016.

David denied guilt on all of the charges with the start of his trial. His defence lawyer, Mbanga Siyomunji, did not provide a plea explanation to the court.

Thomas told the court that David assaulted her by punching her on the mouth and neck, and hitting her on the forehead and mouth with his head after she had refused to give him N\$20 for taxi fare.

She also recounted that after David had left with Indileni on 19 February 2017, he started to send text messages to her. In one of those SMSes, he asked her why she did not want him any more, and her response to him was that it was because he had been beating her. She said David started his next message

to her with the word "surprise", before he told her "we" were no longer coming to her as she did not deserve to have them with her any more. The next day, he also sent her a message

in which he told her that she would not be with Indileni any more, followed by another SMS in which he expressed his love for her and said his goodbyes to her. During all of his communication with her,

David never told her that Indileni had accidentally fallen into water or that she was missing, Thomas said.

The trial is continuing.

State advocate Cliff Lutibezi is representing the prosecution.

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Ondangwa Plot: 6,400 m², on the main road to Oshikango, valuation N\$2,9 million, urgent sale, N\$2,25 Million, CC registered. Not negotiable. 081 128 0252. CLAO190008514

Wilcor Real Estates Otjomuise Ext.10 Phase 2: On show! Friday from 11h00 till 14h00

Saturday from 10h00 till 14h00 Free standing houses, 2 bedrooms N\$705 000 (all cost inclusive) & 3 bedrooms N\$840 000 (all cost inclusive). Aluminium window frames, fully tiled, built-in cupboards in rooms & kitchen

CLAO190008517 Otjomuise: 2 Bedroom flat, open plan lounge and kitchen, bathroom, courtyard, only 10 in a complex, all on ground

with built-in stove. Cornel 081 277 8250

floor, clean and modern unit, valuation N\$820,000 selling price N\$780,000 all inclusive. Call: 081 555 1501

CLAO190008547

N\$1 145 000 Business Zoned Land Okahandja; Next to new Highway. Zoning Business Bulk 2! Smallest size 2 150m². Bigger Sizes Also Available. Already serviced so ready to be developed. Interested Buyers contact Lourette Liebenberg: 081 124 5868 CLAO190008570

For Sale • Auasblick house: 70% completed

Housing & Property

Mansion, N\$3,8 Million, CC registered. Buy it, spend N\$3,5 Million to complete it, then you will have a N\$10 million house. Propvestors 081 128 0252. CLAO190008525

Cosie's Properties CC

Wanaheda: 3 Bedroom house N\$1 million Hakahana: 1 Bedroom house N\$360,000

Goreangab: Erf for sale N\$285,000 cash Otiomuise: 3 Bedroom house, backvard

flat N\$1,350million Okuryangava: 3 Bedroom house N\$750 000. Call Cosie 081 723 0144 / 081 452 4828 / 081 127 6084

Jatties Park Complex
Rhinopark: N\$895 million • Neat 2 bedroom unit, bathroom, kitchen, lounge, tv room, lapa with braai •Guinea Fowl Complex Rocky-Crest: N\$1,250 million Neat spacious 3 bedroom townhouse, 2 bathrooms, kitchen, lounge, guest toilet, double garage, spacious courtyard

•Dares Complex Otjimuise: N\$695 000 2 Bedroom unit, bathroom, kitchen, lounge, courtyard, carport •Khomas-dal: N\$1,560 million 3 Bedroom house, 2 bathrooms, kitchen, lounge, garage, double carport PLUS seperate flat, spacious erf - situated close to Woerman Hyper •Khomasdal: N\$1,6 million. 3 Bedroom house, 1 bathroom, kitchen, lounge, dining, TV room, garage, outside room with bathroom, erf 550 m2 - close to Beukes Spar. Lona 081 127 9808 / lona1923@gmail.com

CLAO190008563

Okahandja: 7 000 m² Size Residential Erf Ready to be Developed. Already Serviced. At N\$2 450 000 it is Far Below Current Bank Valuation. Situated in the heart of town, a stone throw and walking distance from Main Street and Business Area. Zoning 1:100 which allows for 70 Houses To Be Built On 7000m²!! Interested Buyers with pre-arranged funding are invited to contact Lourette Liebenberg: 081 124 5868.

•Katutura: 3 bedroom House, N\$950 000

•Old Hochland Park: 3 bedroom house plus 3 outside flats. N\$2,6 million

Hochland Park: 4 bedroom house, guest wing, big lapa, swimming pool, servant quarter, office, carports, 3x backyard flats. N\$3,2 million, valuation N\$3,75 million

•Hochland Park: 4 bedroom house, swimming pool, carports 3x backyard flats, N\$2,3 million.

 Hochland Park: 5 bedroom house, garage for 4 cars, N\$3,1 million. Contact: 081 448 6034 / 081 555 3024 / Office: 081 311 3228

CLAO190008572

Motoring

• Vehicles for Sale •

2015 Jeep Grand Cherokee, absolu full house, first owner, only 85,000 KM, still under service plan, only N\$420 000, way below market value. 081 128 0252.

CLAO190008516 2013 Honda Accord 2.4 VVTEC. absolutely pristine condition. only 55 000 original KM, lady owned, N\$240 000. 081 128 0252.

CLAO190008519

Motoring • Vehicles for Sale •



2011 Mercedes Benz B180, automatic, petrol, in good condition, mileage 70 896km, local, for sale. N\$68 500 negotiable. Contact 081 252 7564 / 061 269346

Motoring

• Vehicles for Sale •

6 Ton Foton Drop side Perkens N\$350 000. 3 Ton Foton Drop side Cummins N\$ 280 000.Contact 081 767 7639

CLAO190008460 BMW 330 with extras, N\$55 000. Call 081 216 3804 CLAO190008528 Motoring

Vehicles for Sale

Solly Trading CC Veterans call for invoices: are you looking for a bakkie/ sedan?call us,we have various bakkies/ sedan available in stock (toyota,isuzu,nissan,polo,etios,etc) we transport/delivery services in and out of town, N\$350 per trip (in windhoek) second hand tyres for sale haida 235/68 r17 N\$1450. 2012 Polo 6 Gti, import black, very neat, 98 112km, urgent sale N\$103 000 negotiable. **2013 Ford** Figo 1.4 h/b, silver, low km N\$53 500 negotiable. 2012 Polo 6 1.6 h/b, local, manual, white, 78 112km N\$83 000 ne gotiable. 2016 Toyota Bakkie 2.4 gd6 small shape, white, very neat N\$169 000 negotiable. **2016 Toyota Bakkie 2.8** gd6, 4x4, double cab, 55 112km, still on motor plan, service plan, all extra's on light blue N\$352 000 negotiable. 2003 Tovota Bakkie. 2.7i. 4x4 double cab bull nose white very neat all extras on N\$110 000 negotiable. **2008 Mercedes** Benz e350 amg, silver, 72 000km, service record, very neat N\$129 000 negotiable, 2004 Mercedes Benz C32 ama super charge, silver, low km, full house N\$125 000 negotiable. **2016 Toyota** Landcruiser 4.2 diesel brown, low km,-full house N\$310 000 negotiable. 2008 Golf 5 Gti. local. manual.133 121km Call 081 213 6164 / 081 365 6212

CLAO190008573

Motoring

• Vehicle Spares & Accessories •

1995 Citi 1.8, good condition, Mercedes 412 sprinter top, N\$4 000.

Diesel pump N\$10 500. 2000 Volvo S60 top, manual gearbox, N\$4 500. 081 864 6691

CLAO190008558 **Nissan 2.4** complete top, N\$3 000. Sub + new pistons rings bearings N\$3 Volvo S60 sub engine N\$3 500

Steering wheel with airbags N\$1 800. Toyota 2.0 wheel hubs, complete top Corsa 1.4 top N\$2 000. 081 864 6691

CLAO190008559

Notices

• Legal •

Case No. Hc-Md-Civ-Act-Con-20 16/03556 In The High Court Of Namibia In The Matter Between: AGRICULTURAL BANK OF NAMIBIA Plaintiff and SIMON TUHAFENI Defendant NOTICE OF SALE IN EXECUTION Of Immovable Property Pursuant to a Judgment of the above Honourable Court granted on 1 December 2016, the following immovable property will be sold without reserve and voetstoots by the Deputy Sheriff of the District of Tsumeb on Friday, 19 July 2019 At 11h00 in the morning at Portion 1 Of The Farm Okamahundju West No. 178 Located 35Km From Grootfontein, Otjozondjupa

Region. Certain Portion 1 Of The Farm Okamahundiuwest No. 178 Situate Registration Division Otjozondjupa Region Measuring 2566,3328 (Two Five Six Six Comma Three Three Two Eight) Hectares Consisting Of Residential Facilities - 14 Roomed Dwelling House, 1 x Outbuilding with Storeroom, 3 x Garages with 2 Storerooms, 2 x Open Sheds, Outside Toilet, Meat Room, 2 k Storerooms, Braai area, 3 4 Roomed Labourers Houses. Water Supply: - 3 x Boreholes, 2 x Engines, 2 x Power Heads, 2 x Windmills, 4 x Reservoirs, 5 x Drinking Troughs, 2.5km Pipe line, 10,000,00 Litre Water Tank Fencing - Stock Proof Fence, x Fenced - Off Land, 9 x Grazing Paddocks. The "Conditions of Sale-in-Execution" will lie for inspection at the office of the Deputy Sheriff at Tsumeb and at the Head Office of Plaintiff at Windhoek and Plaintiff's Attorneys, Fisher, Quarmby & Pfeifer, at the undermentioned address Dated at Windhoek this 20th day of JUNE 2019. Electronically signed: G.S. McCulloch Fisher, Quarmby & Pfeifer Legal Practitioner For Plaintiff

C/O Robert Mugabe & Thorer Streets Entrance On Burg Street P O Box 37 Windhoek Gmcc/Mm/23378

Notice Of Sale In Execution Of Movable Property In The High Court Of Namibia (Main Division) Case Number: Hc-Md-Civ-Act-Con- 2018/02875. In the matter between: AGRA LIMITED Plaintiff

clao190007568

AGRIBUSDEV Defendant Be Pleased To Take Notice that the under-mentioned assets, in ex-

Notices

• Legal •

ecution of a Judgement granted on 4 February 2019 against the Defendant, will be sold in execution by the Deputy Sheriff for the district of Rundu, on Wednesday, 24 July 2019 at 10:00 at Shadi Greenscheme Irrigation Project, Shadikongoro, Divundu, Kavango East.

1 X Hilux Single Cab 2.5D (White) With Registration Number Grn 19353, 1 X Land Cruiser Toyota 4.2D, (Beige) Single Cab With Registration Number Grn 18439 4X4,1 X Toyota Hilux Single Cab 4X4 With Registration Number N 67476 W, 1 X Landin 1000 Serial No. 2848T36118 4X4 Tractor, 1 X Crop Sprayer Blitz 55T15002t 2 X John Deere 2351 4X4, Tractors,1 X John Deere 3641 4X4 CJ3641M00020 TRACTOR Terms:voetstoots And Cash To The Highest Bidder. Dated At Windhoek On 26Th Day Of June 2019. Etzold - Duvenhage

Hannalie Duvenhage Legal Practitioner For Plaintiff No. 33 Feld Street Windhoek Col/Je/Agr6/0063

clao190008056

In The High Court Of Namibia (Main Division - Windhoek) Case No.: I 1001 / 2016 In The Matter Between: ORYX PROPERTIES LTD. Execution Creditor and CENTRAL AUTOHOF DISTRIBU-TORS CC T/A Suzuki Windhoek 1st Execution Debtor WILLEM BAARTMAN 2nd Execution Debtor Notice Of Sale In Execution Pursuant to Judgement granted by the above Honourable Court. the following goods will be Sold In Execution by a Public Auction on 20 JULY 2019 at 10h00 at Bay Auctioneers, Erf 4856, John Otto Nankudhi Street, Swakopmund, Republic Of Namibia, namely: - Assorted Axles, - Assorted Bumpers, - Assorted Bonnets, -Assorted Body Panels, - Assorted Floormats, - Assorted Boxes With Spares etc. - 1x Suzuki Diagnostic Tool. Terms Of Sale: Voetstoots and cash to the high-est bidder. Dated At Windhoek On This The 22Nd Day Of May 2019. Michelle Saaiman INC. t/a GVS Law Attorneys for Execution, Creditor

Trift Place: Unit 5 c/o Trift & Schinz Streets Ausspannplatz Tel.: +264 83 331 8170 E-mail: michelle@gvs.law

Ref: MS - ORY1/0004 **WINDHOEK** clao190008532

In the matter between: RUBICON ALARM SERVICES CC Execution Creditor and HENDRIK DAWIDS Execu-

In The Magistrate's Court For The

District Of Walvis Bay Held At

Walvis Bay Case No: 361/2018

tion Debtor Notice Of Sale In Execution In Execution of a Judgment granted by the Magistrate's Court in Walvis Bay on the 4th day of October 2017, a sale will be held on 9th August 2019 at 10:00 at Erf No 3764, No 24, Grand Avenue, Industrial Area, Walvis Bay, Republic of Namibia, of the under mentioned movable prop erty of the Execution Debtor: 1x Samsung 4 door fridge, 1x Samsung microwave oven, 1x Dining room table and 8 chairs, 1x 2 Piece white leather lounge suite, 1x Darkwood 4 door television cabinet, 1x Darkwood television stand, 1x Large wall mirror, 1x 6 Piece lounge suite, 1x Samsung flat screen television Terms "Voetstoots": Cash to the highest

bidder. Signed at Walvis Bay on this the 08th day of July 2019. Malherbe Associates INC Legal Practitioners for Plaintiff 171 Sam Nujoma Avenue Walvis Bay REF: PVZ/sb/RUB1/0009

clao190008583

Ministry Of Trade & Industry Liquor Act 1998 Notice Of Application To A Committee Terms Of The Liquor Act 1998 (regulations 14, 26 & 33) Notice is given that an application

in terms of the Liquor Act, 1998, particulars of which appear below, will be made to the Regional Liquor Licensing Committee, Region: Omusati, 1. Name and postal address of applicant: Foi-

P.o. Box 150 Shakati. 2. Name of business or proposed business to which application relates: Ehan-

Notices

• Legal •

gano No2. Shebeen. 3. Address

/ location of premises to which application relates: Uutsima Onaanda. 4. Nature and details of application: Shabeen Liquor Licence, 5. Clerk of the court with whom application will be lodged: Outapi. 6. Date on which application will be lodged: 22 - 31 July 2019. 7. Date of meeting of Committe at which application will be held: 11 September 2019. Any objection or written submission in terms of section 28 of the Act in relation to the application must be sent or delivered to the Secretary of the Committee to reach the Secretary not less than 21 days before the date of the meeting of the Committee at which the application will be heard. clao190008334

5610 **Notices**

• Legal •

Stubenrauch Planning Consultants cc were appointed by the owner of Erf 983, Tsumeb Extension 7, to apply to the Tsumeb Municipality and Namibia Planning Advisory Board (NAMPAB) for the following: • Rezoning of Erf 983, Tsumeb Extension 7 from "Residential 1" with a density of 1:750 to "Residential 2" with a density of 1:250 Erf 983 is situated in the neighbourhood of Tsumeb Extension 7 and measures approximately 1200m2 in extent. Ac-. cording to the Tsumeb Town Planning Amendment Scheme No.12, the subject erf is currently zoned for "Residential 1" purposes with a density of 1:750. It is the intension of our client to rezone Erf 983, Tsumeb Extension 7, from "Residential 1" with a density of 1:750 "Residential 2" with a density of 1:250. The proposed rezoning will enable the owner of Erf 983. Tsumeb Extension 7, to construct a maximum of 4 dwelling units on the subject erf. According to the Tsumeb Town Planning Amendment Scheme No.12, a "dwelling unit" refers to a dwelling consisting of one primary unit with or without an outbuilding where the primary unit consists of mutually adjacent rooms with a kitcher and with at least a bathroom with toilet facilities where the primary unit is designed for occupation of a single household and may subject to the provisions of the this Scheme or any law or regulation, be with or without a supplementary dwelling unit. Sufficient onsite parking will be provided in accordance with the Tsumeb Town Planning Amendment Scheme No.12. Take notice that

the locality map lies for inspection

during normal working hours or

the town planning notice board

of the Tsumeb Municipality and

SPC Office, 45 Feld Street, Wind-

hoek. Further take notice that any

person objecting to the proposed

change in land use as set out

above may lodge such objection

together with the grounds there-

of, with the Tsumeb Municipality

and with the applicant in writing

before Wednesday 26 July 2019.

Applicant: Stubenrauch Planning Consultants cc PO Box 41404 Windhoek

Tel: (061) 251189 Our Ref: W/19031

Kappsfarm Town Planning Scheme Notice is hereby given, that in terms of the provisions of the Kapps Farm Town Planning Scheme, I, Anell Fallis, intend to apply to the Windhoek Municipality for: Consent To Operate A Kiosk On Agricultural Zoned Land Being A Portion Of The Remainder Of The Farm Finkenstein No. 526. The intended kiosk will be situated in the temporary structures opposite the Finken-stein Manor development, on route to the Finkenstein Estate. I intend to operate a kiosk selling daily consumables and necessi ties. Note that this land does not fall within the Finkenstein Estate, Finkenstein Manor and Finkenstein Village. Take notice that the locality plan of the intended kiosk lies for inspection at Windhoek Municipality, Customer Care Centre, Town Planning Notice Board during normal office hours. Further take notice that any person objecting to the proposed use of the land as set out above may lodge such objection together with the grounds thereof, with the City and with the applicant in writing within 14 days of the last publication of this notice. The last day for objections will be 31 July 2019.

081 128 2312 fallisanell@gmail.com

clao190008601

Obituaries

Death & Funeral Notice



HELENA "SHAZINGA" MANASE Born: 12 August 1958 Died: 4 July 2019 Psalm 113 verse 3

We the Manase & Matheus

families herewith announce the passing of our beloved "Shazinga: Memorial Service:

Friday, 12 July 2019 at 18:00

Hoseana Parish, Kuisebmond,

Walvis Bay. Funeral Service: Saturday, 13 July 2019, 06:00 from home, 2774 Visand Street

Kuisebmond, Walvis Bay

Notices

• Legal •

Stubenrauch SPC

Funeral services start 081 267 7773 Johanna Isaak



Obituaries

Death & Funeral Notice



Palyovahongi (Pally) Nakafingo announce the passing of our beloved

Wenesday, 10 June 2019 St Michael Anglican Church Richard Kamuhake, Katutura Time: 16h00

Funeral Services Saturday, 13 June 2019 Enquiries Colka Nangolo 081 129 7131 081 355 6322 Freddie Elifas 081 127 7630

ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PRO-POSED:

FOR EENHANA TOWN COUNCIL, AT EENHANA TOWNLAND, OHANGWENA REGION

In accordance with the Environmental Management Act (No. 7 of 2007) (EMA) and the Environmental Impact Assessment (EIA) Regulations (Government Notice No 4878 of 2012), notice is hereby given to all possible interested and affected parties (I&APs) that an application will be made to the Environmental Commissioner for an environmental clearance as

Proponent: Eenhana Town Council Location: Eenhana Townland

Call +264 81 147 7889

clao190008164

LUCKY BEUKES

Obituaries

Death & Funeral Notice •

DOD: 29-06-2019 He leave behind his wife

kids, brother, sister and family.

from Monday 8 July 2019 till 12 July 2019. The funeral will be on the

13th of July 2019 at Keetmanshoop, House No: 80, New Extension Tseiblaagte. Contact: Lydia Beukes

PALYOVAHONGI Sunrise: 27 September 1968 Sunset: 8 June 2019 We the family of

sister, mother, aunty and grandmother. **Memorial Service Part 1**

Memorial Service Part 2 At the late's homestead Oidimba, Friday, 12 June 2019, Time: 15h00

081 750 4487

Victoria Elifas

085 661 5395

1. WASTE DISPOSAL SITE AND. 2. SAND MINING SITE

INVITATION TO A PUBLIC MEETING

Project (s): (1) Waste Disposal Site (2) and Sand Mining Site

Date of Public Meeting: 11 July 2019 Venue: Ekolola Public Meeting Space Time: 14H00-17H00

Deadline for submission of comments: 19 July 2019 Register as I&Aps @: reddunes18@gmail.com or

PUBLIC NOTICE:

Tuesday 2 July 2019 | NEW ERA **FARMERS**

Agra Limited staff join fight against drought

Staff Reporter

INDHOEK - Agra staff members last week joined the fight against the drought by donating an amount of N\$100 000 to the Dare to Care Fund. Agra staff from all corners of the country decided to collectively raise funds by contributing a share of their salaries to assist in alleviating the plight of droughtstricken farmers.

"Agriculture is the bloodline of Agra Limited, without the farmers Agra would not exist and

therefore it was imperative that we assist our farmers. With this humble contribution, the staff

hopes to assist the fund in reaching the set ambitious collection target of N\$10 million,"

Ndapewa Neshila, the Communications and Public Relations Officer at Agra.

Agra is one of the pillars of the agricultural community in Namibia. The fully-fledged Namibian organisation is led by a team of qualified and experienced Namibian professionals, who understands the evolving industry and thus provide cost-effective



N\$100 000 in the bag... Agra staff members handing over a donation of N\$100 000 to Roelie Venter, Executive Manager of the Namibian Agricultural Union (second from right) with the CEO of Agra Arnold Klein (extreme right). Photo: Contributed

product solutions, personal service, and specialised training, she said.

The company spokesperson

noted this donation proves that Agra is living by its corporate value of "Rooted in our People", which is a clear indication of the company's commitment to the agriculture community in Namibia.

"Agra had earlier this year donated an amount of N\$500 000 to the fund which has gone a long way in assisting our farmers, however, because of the extreme climatic conditions, Agra staff felt they needed to further extend their hands to the farmers to survive the drought," Neshila says.

Roelie Venter, Executive Manager of the Namibian Agricultural Union thanked the Agra staff

for the generous donation. "The donation is highly appreciated, and the fact that it came from the Agra staff indicates the commitment of Agra to the agricultural community in Namibia.

The NAU will ensure that the farmers will receive the intendent assistance," said Venter.

"The Dare to Care Fund, established in 2000, is an initiative by the whole agricultural sector,

including the Namibia Emerging Commercial farmers Union (NECFU), Namibia Agricultural Union (NAU), and the private sector in Namibia, to assist all drought-stricken farmers to survive the drought. Agra is a founding and active member of the Dare to Care

Lab grown meat could cause more environmental damage

Harry Cockburn

Artificially grown beef could generate longerlasting and more damaging greenhouse gases than rearing cattle normally, according to a new scientific study.

Agriculture accounts for around a quarter of all greenhouse gas emissions, driving up



PUBLIC NOTICE:

ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED; 1. WASTE DISPOSAL SITE AND, 2. SAND MINING SITE FOR EENHANA TOWN COUNCIL, AT EENHANA TOWNLAND, OHANGWENA REGION

INVITATION TO A PUBLIC MEETING

In accordance with the Environmental Management Act (No. 7 of 2007) (EMA) and the Environmental Impact Assessment (EIA) Regulations (Government Notice No 4878 of 2012), notice is hereby given to all possible interested and affected parties (I&APs) that an application will be made to the Environmental Commissioner for an environmental clearance as follows:

Project (s): (1) Waste Disposal Site (2) and Sand Mining Site Proponent: Eenhana Town Council Location: Eenhana Townland

Date of Public Meeting: 11 July 2019 Venue: Ekolola Public Meeting Space

Deadline for submission of comments: 19 July 2019 Register as I&Aps @: reddunes18@gmail.com or

Call +264 81 147 7889

Cattle produce large volumes of methane, which remains in the atmosphere for about 12 years. But the effects of carbon dioxide last for millennia.

global temperatures. Cattle, which produce significant quantities of methane and

nitrous oxide, are among the biggest

The demand for beef has also seen vast tracts of land turned into grazing pastures, many of which have to be fertilised with nitrogen-based products, which are also a major source of greenhouse gases.

One touted solution to reducing the environmental impact of beef production is the production of artificially grown meat. Several companies are developing lab-grown beef, pork, poultry and seafood.

But while a move to this means of production could reduce methane levels from beef herds quickly, the new research, published in the journal Frontiers in Sustainable Food Systems suggests over a longer time frame, production of lab-grown meat could generate greater concentrations of damaging CO2.

While methane remains in the atmosphere for around 12 years, CO2 accumulates for millennia.

The study suggests the

environmental benefits of large-scale production of artificial meat hinge on the means of power generation used to make the artificial product in the factories.

The scientists from the Oxford Martin School said they found cultured meat was not necessarily "climatically superior to cattle", adding: "Its relative impact instead depends on the availability of decarbonised energy generation and the specific production systems that are realised."

They reached their conclusion after examining the various possible production methods for cultured meat and their energy demands. They also used three possible meat "consumption pathways" to predict how human demands for beef may fluctuate and change over then next 1,000 years.

Finally they used climate modelling to estimate how different outputs of each of the three greenhouse gases mentioned above - CO2, methane and nitrous oxide - may

affect global temperatures year on year if they increased or decreased, depending on meat consumption and production methods. The researchers concluded only in the most optimistic scenarios was the impact of lab-

grown meat less harmful than cattle rearing. "In the most optimistic cultured meat production footprints, emissions are competitive with cattle systems for CO2 while avoiding the other gases: this is unambiguously superior from a climate perspective," they said.

But they added: "For the most conservative cultured meat footprint used here, which still had a lower carbon dioxide equivalent footprint than any cattle system in the study, the long-term temperature impact of production is dramatically worse than any cattle system."

They said this was largely due to the long-term damage caused by carbon dioxide remaining in the atmosphere.

Although they recognised a shift towards renewable low-carbon energy sources is underway in many countries, they said: "The magnitude of energy required is such that sufficient decarbonised energy generation appears unlikely in the near to medium term."

The demand for beef is growing across the world, with particular growth in Asia where numerous emerging economies and growing household incomes have driven up demand to account for almost 50 per cent of total global beef imports, according to the UK's Agriculture and Horticulture Development

City of Windhoek approves affordable housing concept

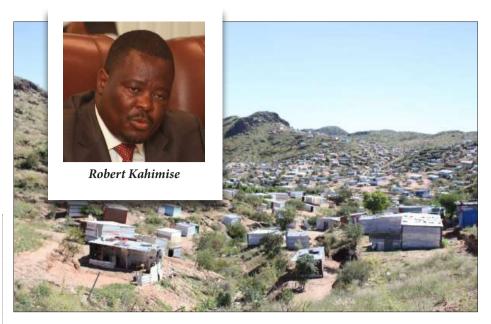
Edgar Brandt

INDHOEK - The City of Windhoek has for the first time approved an Affordable Housing Concept where it intends to build houses, most of which will be below N\$1 million. This was confirmed at a media briefing last week by City of Windhoek Chief Executive Officer Robert Kahimise.

"We have fenced-off land in the informal areas, to curb further proliferation of illegal land grabbing and invasions. This land will be used for the afore-mentioned project," said Kahimise.

Last year, Namibia's housing backlog was estimated at 120 000 houses and this figure continues to grow annually. The escalating housing backlog is mostly due to the unaffordability of houses which is exacerbated by a discrepancy in the demand and supply of decent housing. While government has attempted to rectify the slow pace of serviced land and affordable housing, such as through the N\$45 billion Mass Housing Project, the implementation and execution of this and similar programmes has done little to alleviate the plight for inexpensive housing in the country.

Even the private sector has entered the affordable housing arena, through companies such as Bank Windhoek who have announced financing of alternative housing solutions like PolyCare houses. According to Bank Windhoek, it opted to finance potential buyers of PolyCare Houses in response to government's efforts to alleviate the housing shortage and reduce the housing backlog. PolyCare



houses, which are estimated to cost between N\$250 000 and N\$350 000, are aimed at medium to low-income individuals or families, who are unable to afford conventional housing at current market prices and interest rates. Meanwhile, also at last week's media briefing, Kahimise noted that within the first three months of his arrival the City of Windhoek, he signed-off the Council approved unsolicited Public Private Partnership's (PPP's) Agreements on land and housing delivery.

"This was the last batch of unsolicited land allocations as we have seen that this method was mostly exploited by City officials and their allies to their own benefit. Council stopped this loophole and no further unsolicited PPPs are being considered except for special projects on un-serviced land. City land is mostly offered through public tender except for institutional land and applications from GRN, SOEs, SDFN, Community organised groups and special projects applications including over the counter applications for vulnerable groups. Another loophole highly exploited is through 'Private treaties'

The proliferation of shacks on the outskirts of Windhoek is testament to the escalating housing backlog. City of Windhoek CEO Robert Kahimise last week said the City has approved an Affordable **Housing Concept** where it intends to build houses for below N\$1 000 000.

as this process is where most of the

dubious land dealings occurred. In all these efforts, my only intent remains to try and protect the City's image and create a levelled playing field to all residents when it comes to access to land," said Kahimise.

The City of Windhoek CEO continued that since land delivery PPPs were stopped, the City has made available pockets of land and opened them up to the public through avenues such as tender, Offer to Purchase, government land allocations and youth land allocations.

TransNamib commissions N\$22 million Tamping machine

Staff Reporter

WINDHOEK – Last week, Deputy Minister of Works and Transport Sankwasa James Sankwasa, commissioned a new Tamping machine for TransNamib. The machine, which is a 08-16 Split Head Model was procured for N\$22 million from the manufacturer, Plasser & Theurer of Austria through their South African agent, with funding from government.

The on-track machineries play a vital role in the maintenance of railway tracks. These are complex and expensive railway maintenance machines which services some track activities which can only be done by such mechanised track equipment.

TransNamib previously had two heavy duty Tamping machines which originated from the South African Transport Services in 1986. These machines were manufactured in the late 1950's. Only one of the machines is available and it is currently not operational due to mechanical problems and the spare parts are not readily available. The other machine was scrapped hence the urgent need to acquire a new tamping machine.

The Tamping machine is powered by DEUTZ diesel engine and can travel across the country at speeds of up to 60mph (100km/h). This modern high-performance

tamping machine has a measurement system to enable it to understand where faults exist on the track.

This measurement system requires three trolleys – one at the front of the machine, one in the centre (known as the measuring trolley) and one to the rear.

This 08-16 Split Head heavy duty ballast tamping machine is an essential item of equipment used for correcting and maintaining the geometry of the railway track, i.e. vertical and horizontal alignments as well as superelevation on curves as it removes the vertical roughness of the track.

The 08-16 tamping machine is able to fulfil a maximum tamping rate of 22 sleepers per minute; provide a working tamping rate of 19 sleepers per minute; provide a maximum lift of 100mm and a maximum slew 50mm.

As part of the agreement with Plasser South Africa (Pty) Ltd, Maintenance Support and Training of TransNamib's Operating staff form part of the package. Thus, the supplier provided a full time fitter to supervise the operation and maintenance of the machine for six months. Hands-on-training was provided to TransNamib staff to operate the machine and carry out day-to-day maintenance. TransNamib has emphasised that it is essential to have wellqualified personnel at the machine in order to carry out maintenance at the highest level. To date, three TransNamib employees received on the job training to operate the machine and carry out the daily maintenance. Two of the staff members received theoretical training, i.e.

one for machine operator course and another for a machine fitter course in South Africa. In total, 48 employees, of which 40 are project workers, work along the machine.

along the machine. Since its arrival, the tamping machine has already worked in various part of the country covering approximately 350km. It has tamped some sections between Windhoek and Mariental (124km), between Windhoek and Karibib (121 km), and between Oshikango and Omuthiya (105

ENVIRONMENTAL ASSESSMENT OF THE PROPOSED WASTEWATER TREATMENT PLANT (WWTP) FOR LINUS SHASHIPAPO SECONDARY SCHOOL, KAVANGO EAST REGION

Notice is hereby given to Interested and Affected Parties (I&APs) that an application will be made to the Environmental Commissioner in terms of the Environmental Management Act (7 of 2007) and the EIA Regulations (GN. No. 30 of 6 February 2012) as follows:

Proponent: Dunamis Consulting Engineers & Project Managers (Pty) Ltd

Environmental Assessment Practitioner: MZ-Fifteen Environmental, Health & Safety Consultants cc

Project Location: The WWTP would be located within the Linus Shashipapo Secondary School premises, approximately 120 km east of Rundu and 90 km west of Divundu in Katere, Ndiyona Constituency of the Kavango East Region.

Brief Project Description: The construction and operation of a Wastewater Treatment Plant and associated infrastructure.

All I&APs are invited to register and submit their comments or concerns and request for further project information on the contact details below. The last day to register and submit comments is 9 August 2019.

Public meeting: Thursday, 1 August 2019 (Time: 09:00) at Linus Shashipapo Secondary School Dining Hall in Katere.

Contact: Fredrika Shagama at mz15healthconsultants@gmail.com



PUBLIC NOTICE:

ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED;

1. WASTE DISPOSAL SITE AND,
2. SAND MINING SITE
FOR EENHANA TOWN COUNCIL, AT EENHANA TOWNLAND, OHANGWENA REGION
&

INVITATION TO A PUBLIC MEETING

In accordance with the Environmental Management Act (No. 7 of 2007) (EMA) and the Environmental Impact Assessment (EIA) Regulations (Government Notice No 4878 of 2012), notice is hereby given to all possible interested and affected parties (I&APs) that an application will be made to the Environmental Commissioner for an environmental clearance as follows:

Project (s): (1) Waste Disposal Site (2) and Sand Mining Site Proponent: Eenhana Town Council Location: Eenhana Townland

Date of Public Meeting: 11 July 2019 Venue: Ekolola Public Meeting Space Time: 14H00-17H00

Deadline for submission of comments: 19 July 2019 Register as I&Aps @: reddunes18@gmail.com or

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Municipality: Town Planning Division.

Any person having any objections to the proposed steps may lodge such objections, duly motivated in writing, with the Chief Executive Officer on or before 30th July 2019.

Notice is hereby given that the Swakopmund

6 329m2 in extent);

consolidated Erf X, and

Permanently close Portion "A" of the

Remainder Erf 1023, Swakopmund as

"street" (Portion A measure approximately

Permanently close Portion "B" of Erf

3778, Swakopmund as "street" (Portion B

measure approximately 543m² in extent);

Consolidate Portion A and B into

Subsequently rezone consolidated Erf X

from "Street" to "General Business"

Locality plans are available and open for inspection

during working hours at the Swakopmund

Contact Person: JT Heita Tel: 410 4403 (Manager:

NOTICE NO: 33/2019

Town Planning).

Municipality, intends to:

A Benjamin Chief Executive Officer





ATTANDANCE REGISTER FOR PUBLIC MEETING OF THE ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED NEW WASTE DISPOSAL SITE & SAND MINING AT EENHANA TOWNLAND, OHANGWENA REGION

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ATTANDANCE REGISTER FOR PUBLIC MEETING OF THE ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED NEW WASTE DISPOSAL SITE & SAND MINING AT EENHANA TOWNLAND, OHANGWENA REGION

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