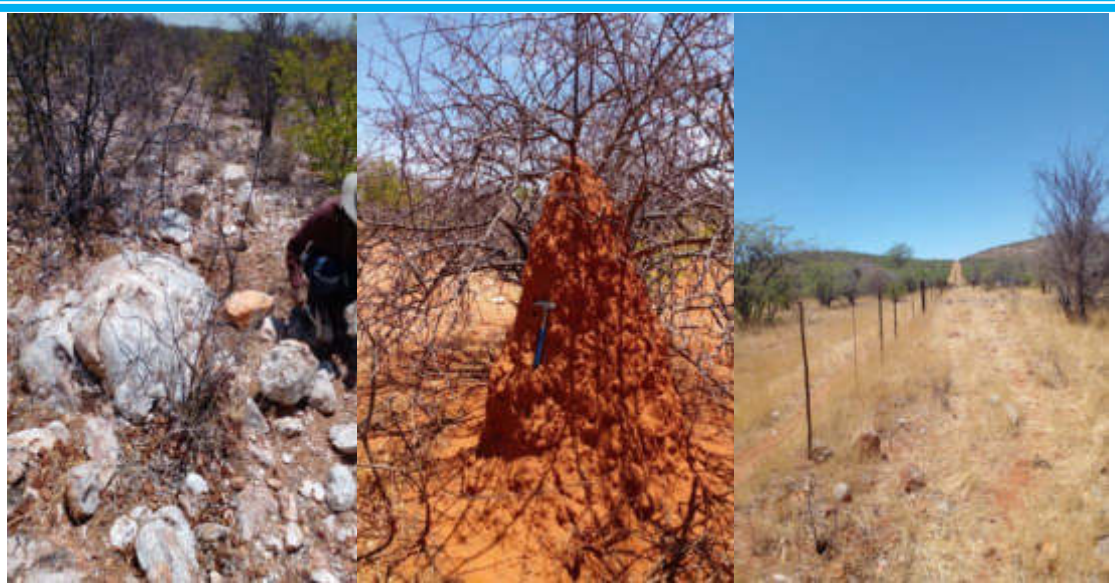
Environmental Impact Assessment (EIA) for the Exploration Activities of Base Metals and Rare Metals, Dimension Stones and Precious Metals on the Exploration Prospecting License (EPL) 7125, Outjo Magistrate District, Kunene



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Statement of Purpose

This document aims to produce an environmental scoping and impact assessment report for Exploration of Base and Rare Metals, Dimensions Stone and Precious Metals on the Exclusive Prospecting License 7125. This report gives insight to the competent authorities for considerations and to Calculus Commodities (Pty) Ltd, represented by Mr Elias Sipunga, on the environmental, social impact of the exploration activities in the area and the environmental management plans. This report is in the context of the provisions of EIAs, EMPs and exploration best practices offered by Green Team Consultants.

Confidentiality

This report contains Confidential Information provided by Green Team Consultants and should not be disclosed to third parties or personnel not directly involved in this project.

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EXECUTIVE SUMMARY

Calculus Commodities (Pty) Ltd is a private research and development firm dedicated to researching and investing in commodity markets – and has identified the opportunity to explore activities of base and rare metals, dimension stones and precious metals. The proposed exploration activities are located on Exclusive Prospecting License (EPL) 7125, which is situated approximately 5 km north of Kamanjab, Outjo District in Kunene Region. The proposed exploration activities will include both Reverse Circulation (RC) and diamond drilling to about 200 m depth. Soil and rock sampling will be conducted and if required, geological mapping, electromagnetic and geophysical surveys shall be conducted.

The proposed project triggers the Environmental Management Act No.7 of 2007 and its associated Regulations, as a Listed activity, as such an application to obtain the Environmental Clearance Certificate will be submitted to the competent authority for review and decision making. The conditions of the natural, cultural, social and economic systems and their interrelations of the receiving environment with low-to-medium diversity of reptiles, birds and mammals which are associated with the rocky escarpment. Whereas, the vegetation varies from dwarf shrub savannah to grassland ecosystem.

The environmental impacts were assessed based on the International Finance Corporation (IFC) standard methodology, in terms of probability (likelihood of occurring), scale/extent (spatial scale), magnitude (severity) and duration (temporal scale). This methodology ensures uniformity and that potential impacts can be addressed in a standard manner so that a wide range of impacts are comparable.

The environmental assessment process has not identified significant social and environmental impacts resulting from the proposed exploration activities. Further analysis has identified social and environmental impacts which includes, but are not limited to employment creation; increase in economic growth, minor waste management, minimal fugitive sand and fine dust emission, disturbance to the biodiversity and the surrounding community. However, by using the national and international best practices, mitigation measures were identified to avoid and/or reduce the impact, as such, the effects on the social and environment were deemed not significant, localised and of short duration.

On this basis, it is the opinion of Green Team Consultants that an Environmental Clearance Certificate could be issued, with conditions attached that the management and mitigation measures as set out in the Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) are implemented and enforced at all times.

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LIST OF ACRONYMS

Acronym	
CC	Closed Corporation
CTD	Current, Temperature, Depth
DO	Dissolved Oxygen
EAP	Environmental Assessment Practitioner
EIA	Environmental Impact Assessment
EIS	Environmental Information Service
EMP	Environmental Management Plan
EPL	Exclusive Prospecting License
ESIA	Environmental and Social Impact Assessment
FDI	Foreign Direct Investments
GHG	Greenhouse Gas
HPP	Harambee Prosperity Plan
IAP	Interested and Affected Party
IBA	Important Bird Area
IFC	International Finance Corporation
IUCN	International Union for the Conservation of Nature
MME	Ministry of Mines and Energy
MEFT	Ministry of Environment, Forestry and Tourism
MODVA	Ministry of Defense and Veteran Affairs
MOL	Ministry of Labour
N/A	Not applicable
NDP	National Development Plan
(PTY) Ltd	Proprietary Limited
RC	Reverse Circulation
SADC	Southern African Development Community
SADC	Southern African Development Community
SASSCAL	Southern African Science Service Centre for Climate Change and Adaptive Land Management

1 INTRODUCTION

1.1 Project Background

Green Team Consultants have been appointed by Calculus Commodities (Pty) Ltd to undertake an Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) in terms of the Environmental Management Act No.7 of 2007 and its associated Regulations. Calculus Commodities (Pty) Ltd is a private research and development firm dedicated to researching and investing in commodity markets – and has identified the opportunity to explore activities of base and rare metals, dimension stones and precious metals. The proposed exploration activities are located on EPL 7125, which is situated approximately 5 km north of Kamanjab town, crosscutting the C35 and D2763 roads, with at least ten (10) farms located within the EPL 7125 boundaries (Figure 1).

1.2 Purpose of the Project

The purpose of this report is to present the findings for EIA and EMP of the proposed exploration activities of base and rare metals, dimension stones and precious metals to the stakeholders, Interest & Affected Parties (I&APs) and the competent authority. The competent authority will review the predicted impacts and associated management actions required to avoid, minimise or mitigate the negative impacts; or to enhance the benefits of the proposed project.

The environmental assessment process aims to determine the potential environmental impacts, mitigation and rehabilitation of the proposed exploration activities with the specific objectives which include, but are not limited to:

- Assess and determine the policy and legislation that apply to the proposed project across the footprint of the development;
- Describe the need and desirability of the proposed project;
- Assess and determine the nature, significance, consequence, extent, duration and probability of the impacts occurring to inform identified preferred alternatives; and the degree to which these impacts e.g., reversibility, irreplaceable, avoided, managed or mitigated and identify their mitigation measures.

1.3 Environmental requirements

The proposed project triggers the Environmental Management Act No.7 of 2007 and its associated Regulations, as a Listed activity, thus an application to obtain the Environmental Clearance Certificate will be submitted to the competent authority (e.g., Ministry of Mines and Energy (MME) and Ministry of Environment, Forestry and Tourism (MEFT) for review and decision making.

Listed activities that have been triggered by the proposed project as per the Environmental Management Act No.7 of 2007 and its associated Regulations includes;

Mining and quarrying activities

(3.1) The construction of facilities for any process or activities which requires a licence, right or other form of authorisation, and the renewal of a licence, right or other form of authorisation, in terms of the Minerals (Prospecting and Mining Act), 1992).

- Calculus Commodities will require a licence for the extraction of metals and industrial minerals.

(3.2) Other forms of mining or extraction of any natural resources whether regulated by law or not.

- The proposed project will require the extraction of minerals (e.g., soil and sand) and metals.

(3.3) Resource extraction, manipulation, conservation and related activities.

- Calculus Commodities proposed to extract metals and industrial minerals.

Forestry activities

(4.) The clearance of forest areas, deforestation, afforestation, timber harvesting or any other related activity that requires authorisation in terms of the Forest Act, 2001 (Act No. 12 of 2001) or any other law.

- If required to access target sites, minimal vegetation clearing or thinning shall, but this will only be dirt roads.

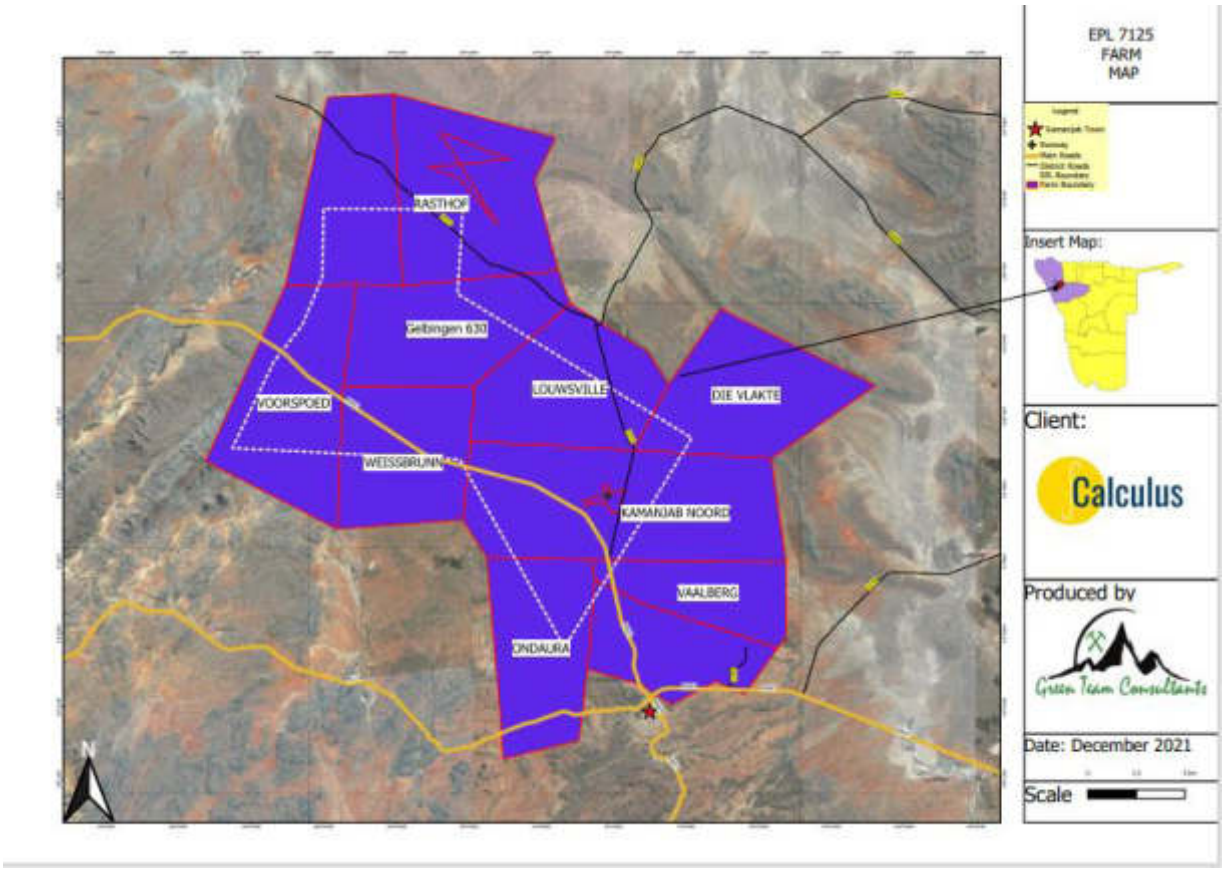

Figure 1 – Location of EPL 7125 as outlined by the white dotted polygon and farms that contained inside the proposed project`s boundary near Kamanjab Town, Kunene Region, Namibia

1.4 Scope of Work and Report Structure

This scoping study was carried out in terms of the Environmental Management Act No.7 of 2007 and its Regulations based on the information as provided by Calculus Commodities (Pty) Ltd, site visit, public participation and literature review.

The environmental assessment report has been compiled as per the following chapters:

- Chapter 1: Introduction, covering the purpose, environmental requirement, need and desirability of the proposed project;
- Chapter 2: Legislation, policies and guidelines frameworks governing the proposed project;
- Chapter 3: Description of the project and its related activities and services;
- Chapter 4: Alternatives considered for the proposed project;
- Chapter 5: Environmental baseline of the proposed project;
- Chapter 6: Public consultation process followed to engage the interested and affected members of the public;
- Chapter 7: Impact identification and assessment. This chapter presents the mitigation measures on how to minimize and/or avoid the potential impacts;
- Chapter 8: The recommendations and conclusions reached will be presented in this chapter.
- Chapter 9: References List. The list of all data sources consulted for the assessment and report compilation.
- Chapter 10: Appendices (A – F)

1.5 Need and Desirability of the Project

Mining exploration could be a challenging business, especially in an economically disadvantaged country such as Namibia. The current economic status has not been easy either hence adding to an unsustainable economy. To improve the country's economic stability, Calculus Commodities (Pty) Ltd identified the need to explore the possible presence of a base and rare metals, dimension stones and precious metals on an Exclusive Prospecting License(EPL) which covers several farms, namely Gelbingen 630, Voorspoed, Lousville, Weisbrunn and Rasthof near Kamanjab town in the Kunene Region.

The exploration activities will result in income generation and the creation of employment opportunities for the local community. These will both contribute to the socio-economic development in the project vicinity, and the country at large, especially for the planned larger phase for mine, plant construction and operations.

The proposed project also supports the Governmental objectives (NDP5) and Harambee Prosperity Plan (HPP) which aims to implement mining strategies that will promote industries that can produce mining inputs and services. This can be achieved by strengthening local suppliers to expand the procurement sector and boost local supplies.

1.6 Appointment of the Environmental Assessment Practitioner (EAP)

Calculus Commodities (Pty) Ltd appointed Green Team consultants cc as an independent environmental consultant to conduct an Environmental Assessment and submit the required documents as part of an application for an Environmental Clearance Certificate to the Environmental Commissioner. The findings of the Environmental Assessment process are incorporated in this report and together with the Environmental Management Plan, will be submitted as part of an application for an Environmental Clearance Certificate to the relevant competent authorities for evaluation, recommendation and consideration.

Mr Titus Shuuya was appointed as a Lead Environmental Assessment Practitioner to facilitate the Environmental Assessment process and was assisted by Ms. Lydia Ilonga, a qualified and experienced Research Assistant. Mr. Sakaria Nalusha, a Project Manager managed the Environmental Assessment process with the required support, including the report review. The CVs of the project team are attached under Appendix A.

2 LEGISLATION, POLICIES AND GUIDELINES

A review of applicable and relevant Namibian legislation, policies and guidelines to the proposed project are summarised in this chapter. This review serves to inform stakeholders, Interested and Affected Parties and the competent authority of the requirements and expectations to be fulfilled to extract minerals for exploration purposes.

2.1 Environmental Management Act No.7 of 2007

This environmental scoping assessment was carried out by the Environmental Management Act No.7 of 2007 and its associated Regulations (GG No. 4878 GN No. 30). This Act has stipulated requirements to complete the required documentation to obtain an Environmental Clearance Certificate for permission to undertake Listed activities.

The Act aims at promoting sustainable management of the environment and the use of natural resources. It is a broad Act that crosscut multidisciplinary fields because regulates land use development through the Environmental Clearance Certification and/or Environmental Impact Assessments. Lists of other relevant and applicable legislations are presented in the table below.

Table 1 Applicable and Relevant Namibian and relevant international legislation, policies and guidelines conducted during the EA process

Legislation/Policy/ Guideline	Relevant Provisions	Implications for this project
Environmental Management Act No. 7 of 2007	Requires that projects with significant environmental impacts are subject to an environmental assessment process (Section 27). Details principles which are to guide Environmental Assessment Practitioners	The Act and its regulations should inform and guide this Environmental Assessment process.
Environmental Impact Assessment Regulations GN 28-30 (GG 4878)	Details requirements for public consultation within a given environmental assessment process (GN 30 S21). Details the requirements for what should be included in a Scoping Report (GN 30 S8) and an Assessment Report (GN 30 S15).	Green Team Consultants need to perform an EIA on behalf of the Calculus Commodities (Pty) Ltd.

Legislation/Policy/ Guideline	Relevant Provisions	Implications for this project
Minerals Prospecting and Mining Act No.33 of 1992	The construction of facilities for any process or activities that requires a license, right or other form of authorisation and the renewal of a licence, right or other form of authorisation. Section 52 states that the holder of a mineral licence shall not exercise any rights conferred upon such holder by this Act or under any terms and conditions of such mineral licence: (a) In, on or under any private land until such holder- (i) Has agreed in writing with the owner of such land containing terms and conditions.	Calculus Commodities (Pty) Ltd need to obtain an exploration permit from the Ministry of Mines and Energy (MME) before exploration activities and renewal of the license. Calculus Commodities (Pty) Ltd to ensure compliance with sections 76, 50 and 52 of the Act.
Forest Act No.12 of 2001	Clearance of forest areas, deforestation, afforestation, timber harvesting or any other related activity.	Calculus Commodities (Pty) Ltd should acquire a forest clearance license from the Ministry of Environment, Forestry and Tourism (MEFT).
Public and Environmental Health Act No. 1 of 2015	To provide a framework for a structured uniform public and environmental health system in Namibia, and to provide for incidental matters.	The Calculus Commodities (Pty) Ltd should ensure adherence to this Act and its Regulations.
Soil Conservation Act No. 76 of 1969	The Act makes provision for the prevention and control of soil erosion and the protection, improvement and conservation of soil, vegetation and water supply sources and resources, through directives declared by the Minister.	Duty of care must be applied for soil conservation.

Legislation/Policy/ Guideline	Relevant Provisions	Implications for this project
The Regional Councils Act (No. 22 of 1992)	These Acts set out the conditions under which Councils must be elected and administer each delineated region. From a land use and project planning point of view, their duties include; "undertaking the planning of the development of the region/ local authority for which it has been established with a view to physical, social and economic characteristics, urbanisation patterns, natural resources, economic development potential, infrastructure, land utilisation pattern and sensitivity of the natural environment."	The relevant Regional Councils are considered to be IA&Ps.
Labour Act No 6 of 1992	Ministry of Labour (MOL) is aimed at ensuring harmonious labour relations through promoting social justice, occupational health and safety and enhanced labour market services for the benefit of all Namibians. This ministry ensures effective implementation of the Labour Act No.6 of 1992.	Calculus Commodities (Pty) Ltd should ensure that the activities do not compromise the safety and welfare of workers.
National Heritage Act No. 27 of 2004	This provides the provision of the protection and conservation of places and objects with heritage significance. Section 55 compels Calculus Commodities (Pty) Ltd to report any archaeological findings to the National Heritage Council.	It is likely for heritage objects to be found on the sites. Provision, as stated in the Act, has been taken into consideration and are summarised into the EMP.

3 PROJECT DESCRIPTION

The proposed project site is located on several farms i.e., Gelbingen 630, Voorspoed, Lousville, Weisbrunn and Rasthof farms that fall under the jurisdiction of EPL 7125 about 5 km North-West of Kamanjab along the C35 road. The area is mostly commercial farms with activities such as livestock farming and wildlife hunting. The proposed project has the potential to create employment, generate income from sales and contribute to regional, national and international economic growth. Once the exploration activities are successfully and commercially viable, the next stage envisions will be mining operations which can result in significant socio-economic development.

Background on Mining Exploration

Mineral exploration is the first stage in the process of mineral extraction and supply. An increase in global mining exploration is due to an increase in demand for metals, growth of industrial output, greatly improved geological knowledge, exploration technology and attractive investments environments among others (Gandhi & Sarkar, 2016).

Mining plays a vital role in the economic development of many countries. In Namibia it has been the backbone of the economy for a long time, having a positive impact on the economy measured through job creation and income generation (Nambinga & Mubita, 2021).

Namibia's abundant minerals have made the mining sector a major source of Foreign Direct Investment (FDI), contributing 12% to Gross Domestic Product (GDP) and providing critical upstream, downstream and sidestream linkages for the Namibian economy.

Mineral exploration also contributes to Government revenue, and the revenue generated has been increasing from 2012 up to 2018. The sector generated about N$35.5 billion in 2018 relative to N$ 18.5 in 2012 which is an 81.8% growth in revenue generated over that period. Mining accounts for 25% of the country's income, contribution (10.4% in 2009,8.5% in 2010,9.5% in 2011, 12,3% in 2012,13.2% in 2013 and 11,6% in 2014).

3.1 Project Location

The proposed project is situated on several farms i.e. Gelbingen 630, Voorspoed, Lousville, Weisbrunn and Rasthof farms which fall under the jurisdiction of EPL 7125. One of the farms, Gelbingen 630 is owned by the Ministry of Defense and Veteran Affairs (MODVA) and several liberation struggle veterans are housed on the farm. MODVA has been contacted and they have granted permission to access the site and other farms (Appendix B). The EPL 7125 is situated approximately 5 km north of Kamanjab town, cross-cutting the C35 and D2763 roads in Kunene Region. The proposed exploration activities are the first phase of a larger version of the project, another Environmental and Social Impact Assessment (ESIA) will be done for mine and plant construction and operation.

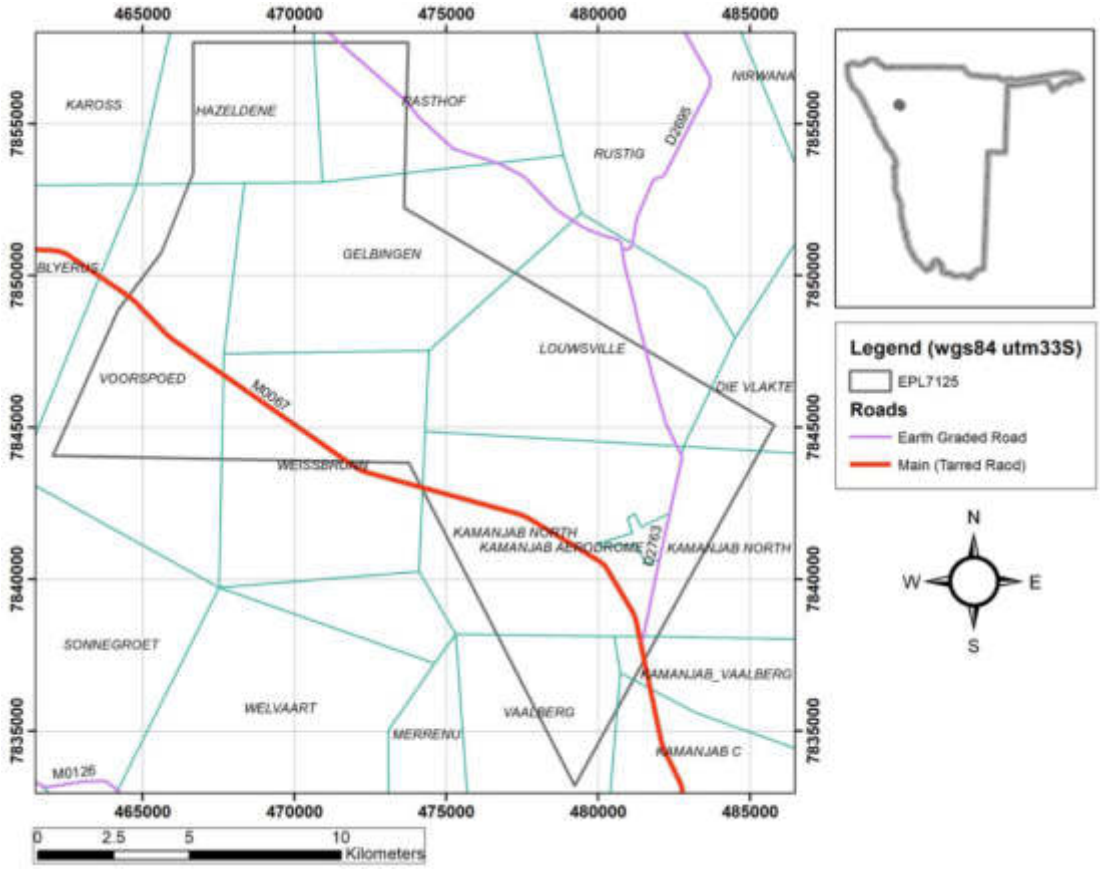

Figure 2-Project location and surrounding farms.

3.2 Proposed Exploration Activities

The proposed exploration activities will occur on EPL 7125, and it will include both Reverse Circulation (RC) and diamond drilling to about a 200 m depth. Soil and rock sampling will be conducted. Geological mapping, electromagnetic and geophysical surveys shall be conducted should there be a need, in accordance with the designed exploration program. If required, some vegetation may be cleared or thinned to create dirty roads to allow access to the targeted locations, however, existing tracks will be used as far as reasonably practical. The proposed exploration is anticipated to be conducted over 3 years.

3.3 Operational and Maintenance

2.2.1 Labor Requirements

Approximately five (10) workers will be employed during the exploration phase, and they will be transported daily from Kamanjab town.

2.2.2 Equipment and Material

Workers will be transported to and from the site using a double or single cap vehicle during the exploration phase. Materials such as sampling bags, compasses, beacons and geo hammers will be brought to the site. A drill rig truck will be brought to the site for drilling exploration holes, an excavator, as well as low delivery vehicles (LDVs) to transport exploration materials. About 100 litres of water for human consumption will be sourced from Kamanjab town and transported to the site daily and a water borehole will be drilled for exploration activities.

2.2.3 Waste Management

Non-Hazardous waste will be generated throughout the process of exploration activities. The waste includes fugitive sand, fine dust, cleared shrubs and bushes. All solid waste will be collected off-site and disposed of at the nearest permitted landfill facility and no waste shall be discharged into the environment. The excavated material and cores drilled will be collected in bags and taken offsite for analysis and logging. In most cases, workers will make use of the toilet from Farm Gelbingen 630 and as the work progress, other ablution facilities shall be identified. If required, a portable toilet will be brought to the site which shall be maintained and cleaned appropriately as per agreement with the landowner. Under no circumstances waste shall be disposed into the environment.

2.2.4 Proposed Drilling Method for Exploration

To acquire the minerals from the ground and analyse the available commodities, Calculus Commodities (Pty) Ltd will be using two drilling methods known as Reverse Circulation (RC) and Diamond drilling. RC method of drilling uses dual wall drill rods that consist of an outer drill rod with an inner tube (Figure 3). These hollow inner tubes allow the drill cuttings to be transported back to the surface in a continuous, steady flow. Unlike diamond drilling, it compiles sample rock cuttings instead of rock core. The drilling mechanism is most often a pneumatic reciprocating piston called a hammer, which in turn is driving a tungsten-steel drill bit, specifically made to be able to crush hard rock.

The diamond drilling method is a precise, cost-effective form of core drilling used to create holes in a range of materials (Figure 4). Diamonds are embedded into hollow drill bits to ensure they can cut or drill through this material. The hollow drill shaft allows water to be pumped through the bit whilst drilling, providing effective cooling and dust suppression that makes diamond drilling one of the cleanest methods in construction.

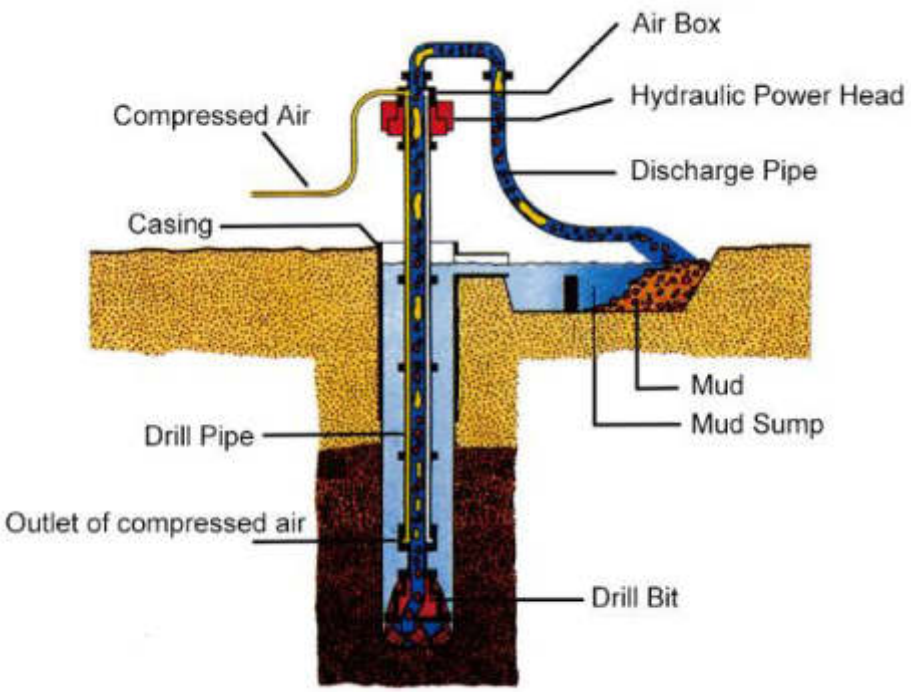

Figure 3 – Reverse Circulation Drilling Method (Epiroc, 2000).

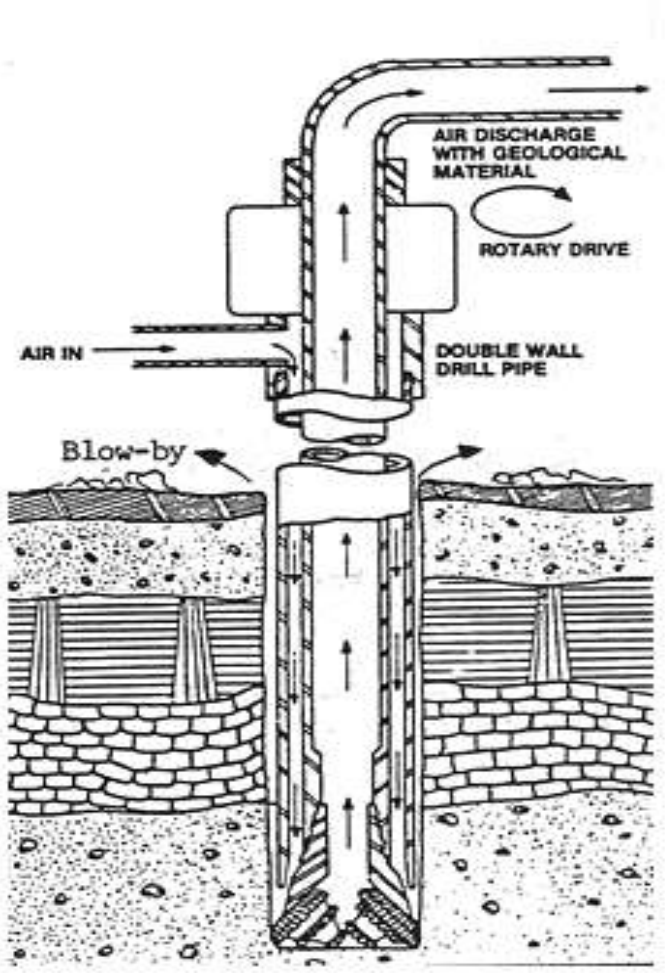

Figure 4 – Diamond Drilling method design (Earth Science, Australia, 1998).

3.4 Rehabilitation

Once the exploration activities have been completed, the EPL 7125 will be rehabilitated as per the competent authority procedures. The rehabilitation programme details will be defined as the project progress and shall be agreed upon with the landowners.

3.5 Site Access and Power Supply

The site is accessible by the existing tarred road C35 which cuts through Weissbrunn and Voorspoed farm to the western boundary of EPL 7125. Alternatively, the site can also be accessed via the district road (D2763) or which crosscut on the eastern boundary of the EPL 7125.

It is unlikely that the proposed project will require a power supply, however, if required, a mobile generator shall be used.

Figure 5-Access & Tarred road that cuts through EPL 7125.

4 ALTERNATIVES AND THE NO-GO OPTION

Alternatives are defined as: "*different means of meeting the general purpose and requirements of the activity*" (Environmental Management Act No. 7 of 2007 and its Regulations. The alternatives considered for the proposed mineral extraction are discussed in the following subchapters.

4.1 The No-Go Alternative

The “No-go” alternative is the option of not proceeding with the proposed exploration activities. Should the proposed project not proceed, the anticipated environmental impacts from exploration activities would not occur, but also the anticipated social and economic benefits will not occur, thus a missed opportunity that is supposed to contribute to the Namibian economy at large.

In considering the proposed activity, the no-go option is not a preferred option.

4.2 Conclusion on Weighed Alternatives

The following alternatives have been considered for the project. The preferred alternatives are summarized as follows:

- **No-go vs. continuation of the proposed project (exploration):** Should the proposed project be discontinued; the government will not earn revenue from exploration activities; local people will lose out on the benefits that come with the project, including the geological data.

5 BASELINE ENVIRONMENT

The conditions of the natural, cultural, social and economic systems and their interrelations of the receiving environment are detailed in this chapter. These include, but is not limited to climatic conditions, geology and soils, hydrogeology and water resources, fauna, flora, avifauna, socio-economic, archeology and heritage sites within the vicinity of EPL 7125. The baseline environment is vital in predicting and evaluating potential environmental impacts of the proposed project before any development, by understanding the existing environmental conditions.

5.1 Climatic Conditions

5.1.1 Temperature

Climatic conditions may have a major influence on the ecology, including the geohydrology in the vicinity of EPL 7125. The climate condition within the vicinity of the proposed project is considered to be a local steppe climate. The average temperature of 22.1°C, with the mean maximum temperature exceeding 34°C per year.

Figure 6-Temperature data for 2021 adopted from SASSCAL Weathernet, 2021.

5.1.2 Rainfall and Wind

The annual rainfall in this ecoregion range is from 250 mm to 300 mm. Over the years, it has been observed that most of the rain falls as thundershowers in the summer months, for example between October to March. However, there is great variation between years, with unpredictable rainfall.

Wind in the EPL 7125 vicinity is relatively higher in the afternoon and evening between April and June.

5.2 Landscape, Geology and Soils

The nature of the landscape across the EPL 7125 is characterized by a combination of topography, geological processes and drainage network. The EPL 7125 is situated between the Owambo and Waterberg Basin surrounded by Otavi and Swakop group rock formation.

Figure 7- Natural view, landscape and common rocks within which EPL 7125 falls.

The Kalahari Sandveld which dominates the eastern and northern regions of Namibia is also common within the vicinity of the proposed project. The common sedimentary rock types within the vicinity of the EPL 7125 include, but are not limited to dolostone, limestone, diamictite, shale, sandstone and volcano-metamorphic rocks, for example, amphibolite. The area is surrounded by Petric Calsisols which are soils that contain Calcium Carbonate, with a solid layer at a shallow depth that remains hard even when wet. An ecoregion is also surrounded by minor Calcaric Regosols which are fine-textured soils also containing Calcium Carbonate material.

5.3 Hydrogeology and Water Resources

The EPL 7125 is located within the moderately productive aquifer and is situated in the Okavango Omatako Basin and the Ugab-Huab Basin, which is one of the largest basins that contains about 4500 m^3 average water volume per year. The EPL 7125 is situated in the ecoregion with moderately productive to the fractured aquifer, with boreholes that can supply water for domestic purposes, subsistence and small-to-large scale commercial farming.

5.4 Fauna species

EPL 7125 is located in the ecological region with low-to-medium diversity of reptiles, birds and mammals which are associated with the rocky escarpment. The most important species that are expected to occur in the proposed project include, but are not limited to *Pedioplanis undata* (Sand lizard), *Trachylepis sulcate* (Western Rock Skink), *Chondrodactylus turneri* (Turner's thick toed Gecko), *Bitis arientans* (Puff Adder), *Stigmochelys pardalis* (Leopard Tortoise), *Trachylepis binotata* (Ovambo Tree Skink), *Geosceurus inauris* (South African Ground Squirrel), *Madoqua kirkii* (Kirks Dik-Dik), *Caracal caracal* (Caracal), *Achaea catela* (Banded Achaea), *Amadina erythrocephala* (Red Headed finch), *Anthene amarah* (black-striped hairtail), *Scolopendra morsitans* (Red-headed centipede), *Phacochoerus africanus* (Common Warthog), *Danaus chrysippus* (Plain tiger or African monarch), *Crocuta Crocuta* (Spotted Hyena), *Struthio camelus* (Common Ostrich). The most important habitat is the rocky outcrops and drainage lines.

5.5 Flora Species

The EPL 7125 is located in the ecoregion with low vegetation cover and scattered bare areas of sparsely distributed trees as well as shrubs. Across the proposed project area, the vegetation varies from dwarf shrub savannah to grassland ecosystem. Tree species such as *Acacia mellifera*, *Acacia reficiens, Grewia flavescens, Croton gratissimus, Boscia albitrunca, Cyphostemma currorri and Colophospermum mopane* are common. Low-to-medium biodiversity within the proposed project vicinity is probably associated with changing climate or shift in climatic condition, poor nutrient levels and unpredictable rainfall. The plant species list as acquired from the Namibian National Herbarium and wind data have been attached in Appendix C.

Figure 8-Acacia Mellifera tree species in the area.

5.6 Avifauna

There are approximately 687 bird species currently recorded in Namibia of which 61 are considered to be vagrants. About 71% of species are recognized nationally as threatened or near-threatened Red Data Species (Simmons, Brown, & Kemper, 2015).

Approximately 201 – 200 bird species can be found within the proposed project vicinity.

Table 2 Bird species that are likely to occur within the site area

Scientific Name	Common Name
Cinnyris mariquensis	Mariqua Sunbird
Pycnonotus nigricans	African Red-Eyed Bulbul
Pytilia melba	Green-winged Pytilia
Ploceus velatus	Southern Masked Weaver
Prinia flavicans	Black-Chested Prinia
Philetairus socius	Sociable Weaver
Amadina erthyrocephala	Red-headed Finch
Leptoptilos crumenifer	Marabou stork
Laniarius atrococcineus	Crimson-breasted Ganolek
Plocepasser mahall	White-browed sparrow-weaver
Turdoides gymnogenys	Bare-Cheeked Babbler
Ploceus velatus	Southern Masked Weaver
Pternistis adspersus	Red-billed-spurfowl
Tricholaema leucomelas	Acacia Pied Barbet
Polemaetus bellicosus	Martial Eagle

5.7 Socio-Economic

Mining is considered to be the backbone of income generation, employment creation, contributing to government revenue and source of foreign direct investments for most developing countries like Namibia. This sector plays a vital role in the economic development of the country, for example, it has both social and economic benefits. It should however not be considered from one perspective of being a source of employment and income generation as it also can present social environmental and economic challenges such as water contamination loss of habitats (plants and animals), exposure of humans and wildlife to toxic materials, noise pollution etc. Namibia is viewed as an attractive mining and exploration investment destination in Africa ranking 6th position out of 15 in the year 2016 (Nambinga & Mubita, 2021).

5.8 Archeology and Heritage Sites

No rock art sites or declared heritage sites appear to be in the area reserved exclusively for mineral exploration at this stage of the project. However, in the event where a heritage site or items of heritage significance are found in the course of the exploration activities, then a chance finds procedure should be followed.

Some of the closest declared heritage site within the region includes, but are not limited to the Cultural Landscape (e.g., Brandberg Area - 012/1951) and Palaeontological (Petrified Forest - 004/1950).

5.9 Identified Potential Impacts

The following potential impacts have been identified and are summarized in Table 3. The assessments of the potential impacts are presented in the Impact Assessment Chapter 7.

Table 3 Summary of Identified and Potential Impacts

Aspect	Description of Project Activity	Potential Impact
Positive impacts		
Employment creation	The local community will be employed to better their livelihood	Socio-economic improvement through employment creation and capacity building
Foreign income	Serves as an important source of fiscal revenue and source of foreign exchange.	Economic growth
Negative impacts		
Water quality	Discharged exploration general waste, effluent	Soil, groundwater and surface water pollution
Health and safety	Construction workers will be exposed to mineral exploration machinery Improper handling of materials and equipment may cause injuries	Environment, health and safety risks

	Incorrect use or lack of appropriate personnel protective equipment (PPE) Fugitive sand and fine dust emission during exploration Disruption to the surrounding community, e.g., some increase in noise levels resulting from exploration activities	
Waste management	Mineral exploration usually generates wastes that lead to environmental pollution, if not properly handled	Environmental pollution
Loss of Biodiversity	Extensive areas of land and vegetation are cleared or thinned, if required, thus resulting in animal habitat loss	Habitat disruption
Land use	Wildlife and livestock disruption from areas where activities are occurring	Wildlife and livestock disturbance and change disturbance or land-use change, illegal hunting and grievance
Heritage sites	Heritage sites resources undiscovered	Potential damage to the heritage site

6 PUBLIC CONSULTATION

Public Participation forms an important component of the Environmental Assessment process. It is defined by the Environmental Management Act No. 7 of 2007, as a 'process in which potential interested and affected parties are allowed to comment on or raise issues relevant to, specific matters. Communication with stakeholders about this proposed development was facilitated through the following means:

- Key stakeholders were identified as the Kamanjab village council, Kamanjab Rural constituency office, various Ministries (including Environment Forestry and Tourism Ministry of Agriculture, Water and Land Reform, Ministry of Defence and Veteran Affairs and Ministry of Mines and Energy). Their contact details were added to a stakeholders list. The stakeholders' list is attached as Appendix D of this report.
- A Background Information Document (BID) was compiled. It contained brief information about the project (Appendix E). The BID was forwarded to all relevant authorities and registered interested and affected parties (I&APs).
- Public notices were placed in the press in two (2) daily Newspapers being Confidente (*12th – 19th and 19th – 25th November 2021*) and New Era (*11th and 18th November 2021*), briefly explaining the proposed project and its locality, inviting the public to register as stakeholders (Appendix F).
- A public participation meeting was arranged and held on 27th November 2021 at Anns Lodge, Kamanjab – and at least four (4) people from the area were present (Figure 9 & Appendix G), and no issues were raised.

Figure 9 – Evidence of public meeting at Anns Lodge, Kamanjab

7 IMPACT ASSESSMENT

The EIA was conducted in accordance with the Environmental Management Act No.7 of 2007 and the Regulations No. 30 of 2012. The process involves identifying, predicting, evaluating and mitigating the potential effects of a proposed project on the receiving environment.

This section describes the assessment and the potential impacts on the biophysical and socio-economic environments, which may occur due to the proposed project. These impacts on the biophysical and socio-economic environment were assessed and relevant mitigation measures have been proposed to reduce and/ or avoid negative impacts and enhance positive impacts. The potential impacts that have been identified and assessed for the proposed project include:

- Employment creation
- Increase in economic growth
- Minor waste management
- Minimal fugitive sand and fine dust emission
- Disturbance to the biodiversity e.g., minimal vegetation clearing or thinning
- Minor disruption to the surrounding community e.g., increase in noise levels
- Potential to unearth, damage or destroy undiscovered heritage remains

7.1 Impact Assessment Methodology

The identified impacts were assessed in terms of probability (likelihood of occurring), scale/extent (spatial scale), magnitude (severity) and duration (temporal scale). To enable a scientific approach to the determination of the environmental significance, a numerical value is linked to each rating scale. This methodology ensures uniformity and that potential impacts can be addressed in a standard manner so that a wide range of impacts are comparable.

It is assumed that an assessment of the significance of a potential impact is a good indicator of the risk associated with such an impact. The following process will be applied to each of the identified potential impacts:

- Provision of a brief explanation of the impact;
- Assessment of the pre-and post-mitigation significance of the impact; and
- Description of recommended mitigation measures.

The recommended mitigation measures prescribed for each of the potential impacts contribute towards the attainment of environmentally sustainable operational conditions of the project for various features of the biophysical and social environment. The following criteria were applied in this impact assessment:

Extent (spatial scale)

Extent is an indication of the physical and spatial scale of the impact. Table 4 shows rating of impact in terms of extent of spatial scale.

Table 4 Extent or spatial impact rating

Low (1)	Low/Medium (2)	Medium (3)	Medium/High (4)	High (5)
Impact is localised within the site boundary: Site only	Impact is beyond the site boundary: Local	Impacts felt within adjacent biophysical and social environments: Regional	Impact widespread far beyond site boundary: Regional	Impact extends National or over international boundaries

Duration

Duration refers to the timeframe over which the impact is expected to occur, measured in relation to the lifetime of the project. Table 5 shows the rating of impact in terms of duration.

Table 5 Duration impact rating

Low (1)	Low/Medium (2)	Medium (3)	Medium/High (4)	High (5)
Immediate mitigating measures, immediate progress	Impact is quickly reversible, short-term impacts (0-5 years)	Reversible over time; medium-term (5-15 years)	Impact is long-term	Long term; beyond closure; permanent; irreplaceable or irretrievable commitment of resources

Intensity, Magnitude / severity

Intensity refers to the degree or magnitude to which the impact alters the functioning of an element of the environment. The magnitude of alteration can either be positive or negative. These were also taken into consideration during the assessment of severity. Table 6 shows the rating of impact in terms of intensity, magnitude or severity.

Table 6 Intensity, magnitude or severity impact rating

Type of criteria	Negative				
	H- (10)	M/H- (8)	M- (6)	M/L- (4)	L- (2)
Qualitative	Very high deterioration, high quantity of deaths, injury of illness / total loss of habitat, total alteration of ecological processes, extinction of rare species	Substantial deterioration, death, illness or injury, loss of habitat/diversity or resource, severe alteration or disturbance of important processes	Moderate deterioration, discomfort, partial loss of habitat/biodiversity or resource, moderate alteration	Low deterioration, slight noticeable alteration in habitat and biodiversity. Little loss in species numbers	Minor deterioration, nuisance or irritation, minor change in species/habitat/diversity or resource, no or very little quality deterioration.

Probability of occurrence

Probability describes the likelihood of the impacts occurring. This determination is based on previous experience with similar projects and/or based on professional judgment. See Table 7 for impact rating in terms of probability of occurrence.

Table 7 Probability of occurrence impact rating

Low (1)	Medium/Low (2)	Medium (3)	Medium/High (4)	High (5)
Improbable; low likelihood; seldom. No known risk or vulnerability to natural or induced hazards.	Likely to occur from time to time. Low risk or vulnerability to natural or induced hazards	A possible, distinct possibility, frequent. Low to medium risk or vulnerability to natural or induced hazards.	Probable if mitigating measures are not implemented. Medium risk of vulnerability to natural or induced hazards.	Definite (regardless of preventative measures), highly likely, continuous. High risk or vulnerability to natural or induced hazards.

Significance

Impact significance is determined through a synthesis of the above impact characteristics. The significance of the impact "without mitigation" is the main determinant of the nature and degree of mitigation required. As stated in the introduction to this chapter, for this assessment, the significance of the impact without prescribed mitigation actions was measured.

Once the above factors have been ranked for each potential impact, the impact significance of each is assessed using the following formula:

SP = (magnitude + duration + scale) x probability

The maximum value per potential impact is 100 significance points (SP). Potential impacts were rated as high, moderate or low significance, based on the following significance rating scale - Table 8 below.

Table 8 Significance rating scale

SIGNIFICANCE	*ENVIRONMENTAL SIGNIFICANCE POINTS*	*COLOUR CODE*
High (positive)	>60	H
Medium (positive)	30 to 60	M
Low (positive)	<30	L
Neutral	0	N
Low (negative)	>-30	L
Medium (negative)	-30 to -60	M
High (negative)	>-60	H

For an impact with a significance rating of high, mitigation measures are recommended to reduce the impact to a low or medium significance rating, provided that the impact with a medium significance rating can be sufficiently controlled with the recommended mitigation measures. To maintain a low or medium significance rating, monitoring is recommended for some time to enable the confirmation of the significance of the impact as low or medium and under control.

7.2 Potential Impacts Assessment

The assessment of the potential negative impacts and their mitigation measures are presented under the following subchapters. Some mitigation measures will be provided under the relevant (assessed) component and the full management action plans will be provided under the Environmental Management Plan (Appendix H).

Socio-Economics Impact

The socio-economic impacts of the proposed project on the received environment are of minor impact. Minor fugitive sand and fine dust emission will be produced from the drilling machines and the exploration process, which are likely to disruption in the surrounding area. However, the proposed project has the potential of improving the local community living standard through direct employment creation, investment and capacity building.

Table 9 Assessment of Exploration Activities on the Socio-Economics

	Extent	Duration	Intensity	Probability	Significance
Pre-mitigation	L/M - 2	M - 3	M - 6	M/H - 4	M - 52
Post-mitigation	L/M - 2	L/M - 2	L//M - 4	L/M - 2	M - 50

Mitigation measures of minimizing the negative impact of exploration on the socio-economics

- Goods and services should be sourced locally as practical as possible;
- Promote the use of small and medium enterprises;
- Capacity-building strategies and programmes should be in place before exploration activities to maximise the use of the local labour force;
- The local community should be considered first for the available employment opportunity, especially for the unskilled workers;
- Assist and promote local authorities to diversify their economic activities;
- Establish and maintain a complainant register, to document all complaints and make efforts to address the area of concern
- Plant and equipment should be well-maintained and fitted with the correct and appropriate noise reduction measures.

Impacts from Waste Generation

The proposed project usually general wastes of all kinds, however, the current phase have minimal waste generation.

Table 10 Assessment of exploration activities on waste generation

Mitigation Status	Extent	Duration	Intensity	Probability	Significance
Pre mitigation	M - 3	L/M - 2	M - 6	M/H - 4	M – 44
Post mitigation	L/M - 2	L/M - 1	L/M - 4	L/M - 2	L - 16

Mitigation measures of minimizing the impact on waste generation

- Workers should be sensitized to dispose of waste responsibly and not to litter.
- All domestic and general operations waste produced daily should be contained until such that time it will be transported to the approved designated waste facilities.
- If applicable, hazardous waste should be properly handled, stored and disposed of at the nearest authorized waste sites.
- No waste should be buried or burned on-site or anywhere else throughout the project lifecycle.
- Appropriate waste bins shall be placed at designated places.

Health and Safety

Even though the potential impacts from exploration activities are deemed to be of low significance, when handling machinery and equipment during the operations, workers may be exposed to health and safety risks, such as injuries. The impact can be rated as medium significant if no mitigation measures are implemented, but upon implementation, the impact will be of low significance if personnel protective equipment is employed as mitigation measures below.

Table 11 Assessment of exploration activities on health and safety

Mitigation Status	Extent	Duration	Intensity	Probability	Significance
Pre mitigation	L/M - 2	L/M - 2	M - 6	M/H - 4	M - 44
Post mitigation	L - 1	L/M - 2	L/M - 4	L/M - 2	L - 16

Mitigation measures of minimizing the impact health and safety

- The site should be equipped with a security control gate, once in operation. This is to limit restrict access to authorised personnel only.
- As part of their induction, the workers should be provided with awareness training of the risks of mishandling equipment and materials on site.
- When working on-site, employees should be properly equipped with personal protective equipment relevant to the type of work they are doing on-site.
- No employee should be allowed to drink alcohol before and during working hours as this may lead to mishandling of equipment which may lead to injuries and other health and safety risks.

- Employees should not be allowed on-site if under the influence of alcohol.

Impact on Land-use and Biodiversity

The project works may potentially put pressure on the existing roads when project materials and goods are delivered to and from the site. The presence of the project will potentially increase traffic and workers in the area, resulting in the disturbance of biodiversity, and possible illegal hunting and grievances. However, if the mitigation measures are implemented, as per the assessment, the impact will be of low significance.

Table 12 Assessment of the impacts of exploration land-use and biodiversity

Mitigation Status	Extent	Duration	Intensity	Probability	Significance
Pre mitigation	M - 3	L/M - 2	M - 6	M/H - 4	M – 44
Post mitigation	L/M - 2	M- 3	L/M - 4	L/M -2	L - 18

Mitigations and recommendations to minimize the impact on land use and biodiversity

- Stakeholder engagement should be implemented throughout the exploration program, especially with the surrounding landowners and other relevant stakeholders.
- A written agreement to access the property for the landowner should be in place before the work commences in their area.
- All complaints, including verbal, should be recorded into the complainant register and resolved within a reasonable time frame.
- All the project personnel should attend the site induction before they start working, and they should have their identification card.
- Develop a policy that limits independent movements of all workers into the veld that could create suspicion of poaching. Strictly prevent poaching, harvesting and making fire, including the collection of firewood, or possession of any such natural materials.
- Project vehicles should not park by the roadside, but on designated sites within the farm where they cannot interfere or pose danger to other road users.
- The designated site access roads provided shall be used as practical as possible.
- No heavy trucks or project related vehicles should be parked outside the project footprint.

- Control traffic movement on site, deliveries and collection of goods and waste to and from the site, for example, movement can be restricted during weekdays between the hours of 08h00 and 17h00.

Impact on Heritage Site

There are no archaeological sites identified within the project area, therefore the exploration activities are not expected to have any implications in terms of the National Heritage Act.

Table 13 Assessment of the impacts of exploration on heritage sites

Mitigation Status	Extent	Duration	Intensity	Probability	Significance
Pre mitigation	M - 3	L/M - 2	M - 6	M/H - 4	M – 44
Post mitigation	L/M - 2	M- 3	L/M - 4	L/M -2	L - 18

Mitigations and recommendations to minimize the impact of heritage sites

- In case heritage sites or items of significance are found in the course of the exploration activities, a chance finds procedure should be followed.
- Work should stop immediately, and the National Heritage Council should be informed as soon as possible.

8 RECOMMENDATIONS AND CONCLUSIONS

The purpose of this report is to present the findings for the EIA and EMP of the proposed exploration activities of base and rare metals, dimension stones and precious metals to the competent authority as part of the application for an Environmental Clearance Certificate. The competent authority will review the predicted impacts and associated management actions required to avoid, minimise or mitigate the negative impacts; or to enhance the benefits of the proposed project.

The environmental assessment process has not identified significant social and environmental impacts resulting from the proposed exploration activities. Further analysis has identified social and environmental impacts which includes, but are not limited to employment creation; increase in economic growth, minor waste management, minimal fugitive sand and fine dust emission, disturbance to the biodiversity and the surrounding community. However, by using the best practice and mitigation measures as identified to avoid and reduce the impact as far as reasonably practical, the effects on the social and environment were deemed not significant, localised and of short duration.

On this basis, it is the opinion of Green Team Consultants that an Environmental Clearance Certificate could be issued, with conditions attached that the management and mitigation measures as set out in the EIA and EMP are implemented and enforced at all times.

9 REFERENCES

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APPENDIX A: CV'S OF TITUS SHUUYA & SAKARIA HIVULWA NALUSHA

1. Personal information

Name:	Titus
Surname:	Shuuya
Postal Address:	P O Box 931, Oshakati
Residential address:	erf 32, Jan Jonker, Klein Windhoek
Nationality:	Namibian
Gender:	Male
Marital Status:	Single
Health:	Good
Date of Birth:	14/04/1983
Identity number:	83041410117
Driving License code:	B
Mobile Number:	0853013777
Email Address:	titus.shuuya@gmail.com
Career objective:	To develop effectual processes of gathering, disseminating and implementing the understanding of forest resources, to ensure sustainable forest management.

2. Education background

Master of Science in Natural Resources Management **Feb 2014 – Oct 2016**
Namibia University of Science and Technology
Major subjects: Natural Resources Management and Plant physiology

Bachelor of Science in Environmental Science **Feb 2008 – Apr 2013**
University of Namibia
Major subjects: Agroforestry, Conservation Biology, Plant physiology, Natural Resources Policy, Laws and Conventions, Research Methods I&II, Environmental science, Population and community ecology, Ecology, Natural Resource Economics, Eco-physiology, Environmental Impact Assessment, Geo-informatics, Climatology and Hydrology, Wildlife ecology, Community Based Natural Resources Management, Environment and Development, Watershed management, Rangeland management, Environmental Pollution and Control

National Diploma in Agriculture **Feb 2002 – Apr 2005**
Ogongo Agricultural College
Major subjects: Field crop production, Vegetable and fruit production, Ecology, Land Use Planning, Soil and water management, Sustainable resource management, Irrigation and drainage, Communications and information systems, Animal production and breeding, Animal health.

3. Work experience

Senior Environmental Practitioner & Consultant **Aug 2019 – current**

Environmental Compliancy Consultancy

- Conduct environmental impact assessment (EIA);
- Compliance auditing;
- Collect, record and interpret data and report writing;
- Participate in the environmental requirements of projects, including licences, permits, approvals, environmental monitoring and reporting;
- Participate in environmental components of projects including environmental management plans, scoping reports, public participation processes water quality monitoring and reporting, rehabilitation and landform management plans for progressive rehabilitation, air quality and noise data;
- Ensure compliance with relevant legislation.

Senior Researcher **Apr 2012 – Jul 2019**

Gobabeb Research and Training Centre

- Managing all planning and logistical implementation of field projects, particularly with reference to the Biodiversity Research and Monitoring Program;
    - Collection of data for specific projects;
    - Develop long-term monitoring program for the mine as stipulated within their environmental management plan;
    - Maintenance of all field equipment, including vehicles and electronic or other measuring instruments;
    - Develop and implement the field safety program;
    - Use the database to design projects;
    - Interact with industry and government and influence science and conservation policy and practice.

Ecologist consultant **Dec 2015 – Apr 2016**

Cheetah Conservation Fund of Namibia (CCF)

- Assist in all aspects of CCF's ecology research;
- Coordinate the de-bushing project (BUSHBLOK) harvest activities and horticulture activities;
- Assist CCF staff and interns with project planning and data analysis;
- Assist in writing scientific publications, research proposals, and grant applications.

Intern **Feb 2012 – Jun 2012**

Gobabeb Training and Research Centre

- Independently planned a scientific research, collected, managed and analysed data plus scientific report writing and results presentation.

Intern **Nov 2011 – Jan 2012**

Desert Research Centre of Namibia/Gobabeb Research and Training Centre

- Vegetation monitoring: The baseline study for the riparian vegetation monitoring programme for the Strategic Environmental Management Plan (SEMP) in the Swakop and Kuiseb Rivers (2013), unpublished.
- Auala, H., Cloete, C., Gottlieb, T., Haimbili, E., Hembapu, N., Kabajani, M., Ndjamba, J., Shekunyenge, A., Shipani, H. & Shuuya, T. 2012. An analysis of the environmental and socioeconomic impacts of Prosopis in the Auob and Nossob Basins, Namibia (Summer Land Care Programme II). Desert Research Foundation of Namibia & Gobabeb Research & Training Centre, Windhoek & Gobabeb.

5. Other professional skills & experience

- Familiar with the FSC Forest Management Standard, the requirements of the standard and the associated auditing processes, The FSC National Forest Stewardship Standard for the Republic of Namibia.
- Presented at five international (South Africa & Israel, 2014-2016) and two in two national conferences.
- Off-road driving training with more than 8 years driving experience.

Computer applications: I am proficient in using: Windows (all versions), Microsoft office, Internet Explorer, ArcGIS 12 and Quantum GIS (QGIS) for geospatial analysis and mapping tools, SPSS, Statistica and SigmaPlot for statistical analysis.

Spoken languages:	English	Oshindonga	Otjiherero	Afrikaans
Speaking level:	*Excellent*	*Excellent*	*good*	*poor*
Writing level:	*Excellent*	*Excellent*	*poor*	*poor*

6. Hobbies and Interest

Learning and exploring new research skills. Travelling and viewing the nature. Playing volleyball.

7. References

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BACKGROUND & OBJECTIVES

Co-founded Green Team Consultants, a consulting firm based in Windhoek which specializes in *"Groundwater Investigations, Sustainable Water Treatment technologies, Urban & Rural Planning (Land-Use Planning), Water & Energy efficiency management, Climate Change Advisory services and Marine Specialized Studies"*. Under his leadership as Managing Partner (Technical Services and Strategic Development), his places Green Team Consultants to compete at a national level for businesses and deliver beyond client exceptions with speed, agility and integrity. I am looking for intellectual stimulation in today's world driven by knowledge-based economy, continuous learning, visioning and innovations. The realities of globalization compel me to think beyond regional boundaries and be aware of the role of businesses as a solution to social and economic challenges. I take cognizance of the fact that businesses and organizations compel us to be creative in order to sustain humanity welfare.

EXPERIENCE

Managing Partner
Green Team Consultants
2015 – to date

Managing Partner - To position the firm to compete and participate in business on a competitive level and develop strategic partnership that will enhance the footprint and the growth of the company. To ensure that all works and projects are delivered with high standards, on time and within the projected budget.

Selected Projects

Project Management-Water

- Borehole siting, drilling, pump testing and water solar pump systems for Mangetti National Park-MET.
- Borehole siting, drilling, pump testing and water solar pump systems for Omauni Public Health Clinic-Ministry of Health and Social Services.
- Geohydrological surveys , drilling supervision of boreholes in //Karas region for the Division of Water Supply and Sanitation-MAWF.
- Environmental Impact Assessment and Management Plan for Water Extraction Permit-Jonkheer Boerdery (Pty) Ltd.
- Geotechnical Investigations for the Township development -Orangemund Town Council.

Project Management-Marine

- Baseline Benthic Study Specialist Study for the National Oil Storage Facilities in Walvis Bay-Ministry of Mines and Energy/Om'kumoh AIJ Consulting Engineers.

Project Management-Land Use Planning

- Integrated Regional Land Use Plan(IRLUP) for Omusati Region-Ministry of Land Reform.

Data Analyst
Puma Energy International B.V (Namibia)
2014 – 2015

- Data Capturing, Data Analysis
- Mathematical Modelling
- Gain and Loss Calculation of Transported Fuel
- Report Writing

Founder
Integral Communications CC
2014 – to date

- Develop Concepts and Ideas for that are patented for the development of Integral Communications products.

Intern Geologist
Otjozondu Mining (Pty) Ltd
2009 - 2010

- Geological Mapping and Report Writing,
- Core logging and Maps Interpretation,
- Core Drilling Supervision.

EDUCATION

Bachelor Of Science (Geology, Mathematics, Physics)
1st class degree
Osmania University - Hyderabad, India

Certificate: Micro, Small And Medium Enterprises Development Finance
Frankfurt School Of Finance & Management
Germany

SKILLS

- QGIS
- ArcGIS
- AQTESOLV
- Project Management
- Express Accounts Accounting

LEADERSHIP

Founding President
Namibia Students Association In India (NSAI)

LANGUAGES

- English (fluent)
- Oshiwambo (native)
- French (beginner)

PUBLICATIONS

Laird MC, Hutchings K, Nalusha SH and Clark BM. 2018. Baseline Study of the Benthic and Rocky shore Biodiversity for the New Oil Receiving Jetty in the SADC Gateway Port Area in Walvis Bay

PATENTS

Silent Security Guard (Patent No.17 of 1923): Social initiative invention that reports Gender Based-Violence in silence by pressing a panic-button on a USB-sized device.
Registered with **Ministry of Trade and Industry**

MEMBERSHIPS

Namibia Water Partnership (NWP), No. **INST013**

AWARDS

Business
Namibia Business Innovation Institute (NBII) Business Plan Award -2014

Business
Namibia Business Innovation Centre (NBIC) Business Idea Award -2013

Scholarship
Indian Council for Cultural Relations (ICCR) Scholarship Award-2010

REFERENCES

Mr. Henry A Beukes
Chief Hydrologist
Water Supply and Sanitation: Ministry of Agriculture, Water and Land Reform
Government Office Park, Luther Street
Tel: +264 61 2087316
Cell: +264 811 599157
Email: beukes.henry@mawf.gov.na

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Om'kumoh Consulting Engineers
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Email: kondwanie@omkumohaij.com.na

Dr Barry Clark (Pr.Sci.Nat)
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Cape Town
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Email: barry@anchorenvironmental.co.za

Mr. Born-Bright Muleke
Chief Land Use Planner& Project Manager
Ministry of Agriculture, Water and Land Reform
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Cell: +264 811 250696
Email: Born.Muleke@mlr.gov.na

APPENDIX B: PERMISSION TO ACCESS THE FARMS

REPUBLIC OF NAMIBIA

MINISTRY OF DEFENCE AND VETERANS AFFAIRS

Tel: 061) 296 3000
Fax: (061) 305937
Enq: Mr. G.Mabua

Private Bag 13407,
Heanik Building, Independence Ave.

Ref: 13/1/1/6

Mr. N. Elias Sipunga
Managing Partner
Calculus Commodities (Pty) Ltd
P.O. Box 1504, Tsumeb

24 August 2021

SUBJECT: APPLICATION FOR CONSENT TO ACCESS FARM GELBINGEN 630, REGISTRATION DIVISION "A", KUNENE REGION

1. Your letter dated 19th August 2021 bears reference.

2. Ministry of Defence and Veterans Affairs (MODVA) hereby informs you that your request for consent to access Farm Gelbingen 631, Kunene Region, Reg. Div. "A" for the purpose of conducting environmental, social and mineral exploration studies has been granted and approved with the following conditions:

   a) The project is operated in accordance with the Minerals (Prospecting and Mining) Act No 33 of 1992;
   b) The project is operated in a ecological manner and in case of overlap, compliance with Sec 69 (EPLs) should be highly considered;
   c) A valid environmental clearance certificate should be obtained from the Ministry of Environment and Tourism.

The Ministry wishes you the best with your project operations.

Yours Sincerely,

Dr. Wilhelmine Shivute
EXECUTIVE DIRECTOR

REPUBLIC OF NAMIBIA
MINISTRY OF DEFENCE & VETERANS AFFAIRS
2021 -08- 24
EXECUTIVE DIRECTOR

APPENDIX C: LIST OF PLANT SPECIES WITHIN THE VICINITY OF THE PROPOSED PROJECT

SPECIES	ENDEMISM	PROTECTED
Abutilon angulatum (Guill. & Perr.) Mast. var. angulatum		
Abutilon ramosum (Cav.) Guill. & Perr.		
Acacia ataxacantha DC.		
Acacia erubescens Welw. ex Oliv.		
Acacia hebeclada DC. subsp. hebeclada		
Acacia nebrownii Burtt Davy		
Acacia nilotica (L.) Willd. ex Delile subsp. kraussiana (Benth.) Brenan		
Acacia reficiens Wawra subsp. reficiens		
Acacia senegal (L.) Willd. var. rostrata Brenan		
Acalypha fruticosa Forssk. var. fruticosa		
Acrotome fleckii (Gürke) Launert	Endemic	
Actiniopteris radiata (J.König ex Sw.) Link		
Adenium boehmianum Schinz		
Adenolobus garipensis (E.Mey.) Torre & Hillc.		
Aeollanthus neglectus (Dinter) Launert		
Aizoanthemum dinteri (Schinz) Friedrich	Endemic	
Aizoon virgatum Welw. ex Oliv.		
Aloe buettneri A.Berger		Protected
Alternanthera pungens Kunth		
Amphiasma merenskyanum Bremek.	Near endemic	
Aneilema hockii De Wild.		
Anthephora pubescens Nees		
Anthephora ramosa Gooss.		
Aponogeton desertorum Zeyh. ex A.Spreng.		
Aptosimum elongatum Engl.		
Aptosimum lineare Marloth & Engl.		
Aptosimum molle Skan		
Aptosimum welwitschii Hiern	Near endemic	
Argemone ochroleuca Sweet subsp. ochroleuca		
Aristida adscensionis L.		
Aristida effusa Henrard		
Aristida hordeacea Kunth		
Aristida rhiniochloa Hochst.		
Artemisia afra Jacq. ex Willd.		
Barleria kaloxytona Lindau	Endemic	
Barleria lancifolia T.Anderson subsp. lancifolia		

SPECIES	ENDEMISM	PROTECTED
Barleria meeuseana P.G.Mey.	Endemic	
Barleria senensis Klotzsch		
Berchemia discolor (Klotzsch) Hemsl.		
Blepharis diversispina (Nees) C.B.Clarke		
Blepharis obmitrata C.B.Clarke		
Boerhavia diffusa L. diffusa		
Boscia albitrunca (Burch.) Gilg & Gilg-Ben.		Forestry protected
Boscia foetida Schinz subsp. foetida		
Bothriochloa radicans (Lehm.) A.Camus		
Cardiospermum corindum L.		
Cardiospermum pechuelii Kuntze		
Catophractes alexandri D.Don		
Cenchrus ciliaris L.		
Cephalocroton mollis Klotzsch		
Chamaesyce inaequilatera (Sond.) Soják		
Chascanum pinnatifidum (L.f.) E.Mey. var. pinnatifidum		
Cheilanthes dinteri Brause		
Cheilanthes marlothii (Hieron.) Schelpe		
Chenopodium olukondae (Murr) Murr		
Cienfuegosia digitata Cav.		
Cissus nymphaeifolia (Welw. ex Baker) Planch.		
Cleome elegantissima Briq.		
Cleome foliosa Hook.f. var. foliosa		
Cleome laburnifolia Roessler	Endemic	
Cleome suffruticosa Schinz	Endemic	
Cocculus hirsutus (L.) Diels		
Combretum apiculatum Sond. subsp. apiculatum		
Combretum imberbe Wawra		
Commelina benghalensis L.		
Commelina forskaolii Vahl		
Commelina livingstonii C.B.Clarke		
Commiphora africana (A.Rich.) Engl. var. africana		
Commiphora calciicola Engl.		
Commiphora crenato-serrata Engl.	Near endemic	
Commiphora dinteri Engl.	Endemic	
Commiphora glaucescens Engl.	Near endemic	
Commiphora mollis (Oliv.) Engl.		
Commiphora multijuga (Hiern) K.Schum.	Near endemic	
Commiphora pyracanthoides Engl.		
Corallocarpus welwitschii (Naudin) Hook.f. ex Welw.		

SPECIES	ENDEMISM	PROTECTED
Corchorus tridens L.		
Cordia monoica Roxb.		
Cordia sinensis Lam.		
Crotalaria argyraea Welw. ex Baker		
Crotalaria barnabassii Dinter ex Baker f.		
Crotalaria damarensis Engl.		
Crotalaria heidmannii Schinz		
Crotalaria podocarpa DC.		
Croton gratissimus Burch. var. subgratissimus (Prain) Burtt Davy		
Cucumella cinerea (Cogn.) C.Jeffrey		
Cucumis africanus L.f.		
Cucumis aspera Cogn.		
Cullen obtusifolia (DC.) C.H.Stirt.		
Cullen tomentosum (Thunb.) J.W.Grimes		
Cymbopogon caesius (Hook. & Arn.) Stapf		
Cyperus marginatus Thunb.		
Cyphostemma ruacanense (Exell & Mendonça) Desc.		
Dactyliandra welwitschii Hook.f.		
Danthoniopsis dinteri (Pilg.) C.E.Hubb.		
Dichrostachys cinerea (L.) Wight & Arn. subsp. africana Brenan & Brummitt var. africana		
Dicoma tomentosa Cass.		
Drimia sanguinea (Schinz) Jessop		
Emilia marlothiana (O.Hoffm.) C.Jeffrey		
Enneapogon cenchroides (Licht. ex Roem. & Schult.) C.E.Hubb.		
Enneapogon desvauxii P.Beauv.		
Enneapogon scoparius Stapf		
Eragrostis dinteri Stapf		
Eragrostis echinochloidea Stapf		
Eragrostis porosa Nees		
Eragrostis trichophora Coss. & Durieu		
Eragrostis viscosa (Retz.) Trin.		
Eriocephalus luederitzianus O.Hoffm.		
Eriospermum abyssinicum Baker		
Erucastrum arabicum Fisch. & C.A.Mey.		
Erythrina decora Harms	Endemic	Forestry protected
Euclea pseudebenus E.Mey. ex A.DC.		
Euphorbia guerichiana Pax		
Euphorbia monteiroi Hook.f. subsp. monteiroi	Near endemic	

SPECIES	ENDEMISM	PROTECTED
Faidherbia albida (Delile) A.Chev.		Forestry protected
Felicia smaragdina (S.Moore) Merxm.	Endemic	
Ficus glumosa Delile		
Fingerhuthia africana Lehm.		
Flueggea virosa (Roxb. ex Willd.) Voigt subsp. virosa		
Geigeria acaulis (Sch.Bip.) Benth. & Hook.f. ex Oliv. & Hiern		
Geigeria odontoptera O.Hoffm.	Endemic	
Geigeria ornativa O.Hoffm.		
Gisekia africana (Lour.) Kuntze var. africana		
Gladiolus saccatus (Klatt) Goldblatt & M.P.de Vos		
Gonialoe dinteri (A.Berger) Boatwr. & J.C.Manning	Near endemic	Protected
Gossypium anomalum Wawra ex Wawra & Peyr. subsp. anomalum		
Gossypium triphyllum (Harv.) Hochr.		
Helichrysum candolleanum H.Buek		
Helichrysum tomentosulum (Klatt) Merxm. subsp. tomentosulum		
Helinus integrifolius (Lam.) Kuntze		
Heliotropium giessii Friedr.-Holzh.		
Heliotropium lineare (A.DC.) Gürke		
Heliotropium nelsonii C.H.Wright		
Heliotropium ovalifolium Forssk.		
Heliotropium steudneri Vatke		
Heliotropium zeylanicum (Burm.f.) Lam.		
Hermannia modesta (Ehrenb.) Mast.		
Hermbstaedtia argenteiformis Schinz		
Hermbstaedtia odorata (Burch.) T.Cooke var. albi-rosea Suess.		
Hermbstaedtia odorata (Burch.) T.Cooke var. odorata		
Heteropogon contortus (L.) Roem. & Schult.		
Hibiscus caesius Garcke var. caesius		
Hibiscus calyphyllus Cav.		
Hibiscus castroi Baker f. & Exell var. castroi		
Hibiscus rhabdotospermus Garcke		
Hiernia angolensis S.Moore		
Hirpicium gazanioides (Harv.) Roessler		
Indigofera astragalina DC.		
Indigofera heterotricha DC. subsp. pechuelii (Kuntze) Schrire		
Indigofera holubii N.E.Br.		
Indigofera rautanenii Baker f.	Near endemic	

SPECIES	ENDEMISM	PROTECTED
Ipomoea holubii Baker		
Ipomoea obscura (L.) Ker Gawl. var. obscura		
Ipomoea sinensis (Desr.) Choisy subsp. blepharosepala (Hochst. ex A.Rich.) Verdc. ex A.Meeuse		
Ipomoea verbascoidea Choisy		
Justicia platysepala (S.Moore) P.G.Mey.	Near endemic	
Kirkia acuminata Oliv.		
Kohautia aspera (B. Heyne ex Roth) Bremek.		
Kyphocarpa angustifolia (Moq.) Lopr.		
Lablab purpureus (L.) Sweet subsp. purpureus		
Laggera decurrens (Vahl) Hepper & J.R.I.Wood		
Lantana angolensis Moldenke		
Lantana dinteri Moldenke		
Lantana rugosa Thunb.		
Lapeirousia coerulea Schinz		
Lapeirousia otaviensis R.C.Foster		
Lessertia benguellensis Baker f.		
Leucas pechuelii (Kuntze) Gürke	Near endemic	
Leucosphaera bainesii (Hook.f.) Gilg		
Limeum argute-carinatum Wawra ex Wawra & Peyr. var. argute-carinatum		
Limeum sulcatum (Klotzsch) Hutch. var. robustum Friedrich		
Limeum sulcatum (Klotzsch) Hutch. var. sulcatum		
Lycium bosciifolium Schinz		
Maerua juncea Pax subsp. juncea		
Maerua schinzii Pax		Forestry protected
Manuleopsis dinteri Thell.	Endemic	
Marsilea ephippiocarpa Alston		
Megalochlamys marlothii (Engl.) Lindau		
Melanthera marlothiana O.Hoffm.		
Melhania damarana Harv.		
Melinis longiseta (A.Rich.) Zizka subsp. bellespicata (Rendle) Zizka		
Melinis repens (Willd.) Zizka subsp. grandiflora (Hochst.) Zizka		
Merremia palmata Hallier f.		
Momordica humilis (Cogn.) C.Jeffrey		
Monechma cleomoides (S.Moore) C.B.Clarke		
Monechma divaricatum (Nees) C.B.Clarke		
Monechma genistifolium (Engl.) C.B.Clarke subsp. genistifolium	Endemic	
Montinia caryophyllacea Thunb.		

SPECIES	ENDEMISM	PROTECTED
Nelsia quadrangula (Engl.) Schinz		
Neorautanenia mitis (A.Rich.) Verdc.		
Nicolasia stenoptera (O.Hoffm.) Merxm. subsp. stenoptera		
Nidorella resedifolia DC. subsp. resedifolia		
Ocimum americanum L. var. americanum		
Ocimum canum Sims		
Ocimum filamentosum Forssk.		
Oncocalyx welwitschii (Engl.) Polhill & Wiens		
Ondetia linearis Benth.	Endemic	
Opilia campestris Engl. var. campestris		
Orbivestus cinerascens (Sch.Bip.) H.Rob.		
Ornithogalum stapffii Schinz	Endemic	
Otoptera burchellii DC.		
Pancratium tenuifolium Hochst. ex A.Rich.		
Panicum coloratum L. var. coloratum		
Pavetta harborii S.Moore		
Pavetta zeyheri Sond.		
Pavonia burchellii (DC.) R.A.Dyer		
Pavonia rehmannii Szyszyl.	Endemic	
Pechuel-loeschea leubnitziae (Kuntze) O.Hoffm.		
Pegolettia oxyodonta DC.	Near endemic	
Pegolettia senegalensis Cass.		
Peliostomum leucorrhizum E.Mey. ex Benth.		
Pentarrhinum insipidum E.Mey.		
Pentatrichia petrosa Klatt ex Range	Near endemic	
Pergularia daemia (Forssk.) Chiov. var. daemia		
Petalidium bracteatum Oberm.	Endemic	
Petalidium coccineum S.Moore		
Petalidium englerianum (Schinz) C.B.Clarke		
Petalidium rossmannianum P.G.Mey.	Endemic	
Petalidium variabile (Engl.) C.B.Clarke var. spectabile Mildbr.	Endemic	
Peucedanum upingtoniae (Schinz) Drude		
Phaeoptilum spinosum Radlk.		
Philyrophyllum schinzii O.Hoffm.		
Phyllanthus maderaspatensis L.		
Phyllanthus pentandrus Schumach. & Thonn.		
Plectranthus hereroensis Engl.		
Polygala leptophylla Burch. var. leptophylla		
Ptycholobium biflorum (E.Mey.) Brummitt subsp. angolensis (Baker) Brummitt		
Pupalia lappacea (L.) A.Juss. var. lappacea		

SPECIES	ENDEMISM	PROTECTED
Rhigozum brevispinosum Kuntze		
Rhus marlothii Engl.		
Rhynchosia candida (Welw. ex Hiern) Torre		
Rhynchosia minima (L.) DC. var. falcata (E.Mey.) Verdc.		
Rhynchosia sublobata (Schumach. & Thonn.) Meikle		
Rhynchosia venulosa (Hiern) K.Schum.		
Rogeria adenophylla J.Gay ex Delile		
Rotheca myricoides (Hochst.) Steane & Mabb. var. myricoides		
Schizachyrium exile (Hochst.) Pilg.		
Schmidtia pappophoroides Steud.		
Schoenoplectus muricinux (C.B.Clarke) J.Raynal		
Seddera suffruticosa (Schinz) Hallier f. var. suffruticosa		
Senecio consanguineus DC.		
Sesamothamnus guerichii (Engl.) E.A.Bruce	Near endemic	
Sesamum rigidum Peyr. subsp. rigidum		
Sesamum triphyllum Welw. ex Asch. var. grandiflorum (Schinz) Merxm.		
Sesamum triphyllum Welw. ex Asch. var. triphyllum		
Sesbania bispinosa (Jacq.) W.Wight var. bispinosa		
Solanum burchellii Dunal		
Solanum delagoense Dunal		
Solanum incanum L.		
Solanum rigescentoides Hutch.	Endemic	
Solanum tettense Klotzsch var. renschii (Vatke) A.E.Gonç.		
Steganotaenia araliacea Hochst. var. araliacea		
Sterculia quinqueloba (Garcke) K.Schum.		
Stigmatorhynchus hereroensis Schltr.	Endemic	
Stipagrostis hirtigluma (Steud. ex Trin. & Rupr.) De Winter subsp. patula (Hack.) De Winter		
Stipagrostis hochstetteriana (Beck ex Hack.) De Winter var. secalina (Henrard) De Winter		
Stipagrostis namaquensis (Nees) De Winter		
Stipagrostis uniplumis (Licht.) De Winter var. uniplumis		
Strophanthus amboensis (Schinz) Engl. & Pax		
Syncolostemon bracteosus (Benth.) D.F. Otieno		
Tapinanthus oleifolius (J.C.Wendl.) Danser		
Tephrosia burchellii Burtt Davy		
Tephrosia caerulea Baker f. subsp. otaviensis (Dinter) A.Schreib. & Brummitt		
Tephrosia purpurea (L.) Pers. subsp. leptostachya (DC.) Brummitt var. pubescens Baker		

SPECIES	ENDEMISM	PROTECTED
Tephrosia rhodesica Baker f. var. rhodesica		
Tephrosia uniflora Pers. subsp. uniflora		
Tephrosia villosa (L.) Pers. subsp. ehrenbergiana (Schweinf.) Brummitt var. daviesii Brummitt		
Terminalia prunioides M.A.Lawson		
Thamnosma africana Engl.		
Tinnea rhodesiana S.Moore		
Tragia lancifolia Dinter ex Pax & K.Hoffm.	Endemic	
Tricholaena monachne (Trin.) Stapf & C.E.Hubb.		
Tripteris nervosa Hutch.	Endemic	
Triraphis purpurea Hack.		
Triraphis ramosissima Hack.		
Triumfetta benguelensis Wawra ex Wawra & Peyr.		
Trochomeria macrocarpa (Sond.) Hook.f. subsp. vitifolia (Hook.f.) R.Fern. & A.Fern.		
Urochloa brachyura (Hack.) Stapf		
Urochloa oligotricha (Fig. & De Not.) Henrard		
Vangueria infausta Burch. subsp. infausta		
Walleria nutans J.Kirk		
Xerophyta equisetoides Baker var. pauciramosa L.B.Sm. & Ayensu		
Xerophyta humilis (Baker) T.Durand & Schinz		
Xerophyta viscosa Baker		

APPENDIX D: LIST OF INTERESTED AND AFFECTED PARTIES

Date	Stakeholder Type	Farm Name	Title	Surname	First Name	Address	Interest/How stakeholder is affected by Project	Potential Influence on Project	Level of Engagement (Inform, Consult, Involve, Collaborate, Empower)	Methods of Engagement	Engagement Schedule
09/11/2021	Directly Affected	FARM GELBINGEN	Dr	Wilhelmine	Shivute	Oanib building, Indipendence Ave, Windhoek	Land Owner	Land Access	Inform/Consult	Newsletter, meetings, door knock, letter drop, open day, observation area, newspaper	As often as required / requested by landowner
27/11/2021	Directly Affected	REMAINING PORTION OF KAROSS(KNOWN AS HAZLDENE) NOW CALLED EKONGO	MR	KREINER	HUBERFUS	149 Kamanjab	Land Owner	Land Access	Inform/Consult	Public Meeting	As often as required / requested by landowner
27/11/2021	Directly Affected	LOUWSVILLE	Mr	ALBIE	THOMAS		Land Manager	Land Access	Inform/Consult	Public Meeting	As often as required / requested by landowner
27/11/2021	Indirectly Interested or Affected	FARM BENLAH	Mr	BACH	von H		Land Owner	Opportunity to provide local support for project	Inform/Consult	Public Meeting	As often as required / requested by landowner
20/11/2021	Directly Affected	FARM GELBINGEN (A)	Mr	IPINGE	HOPELONG		Land Owner	Land Access	Inform/Consult	Newsletter, meetings, door knock, letter drop, open day, observation area, newspaper	As often as required / requested by landowner
20/11/2021	Directly Affected	FARM GELBINGEN(B)	Mr	KENNE			Land Owner	Land Access	Inform/Consult	Newsletter, meetings, door knock, letter drop, open day, observation area, newspaper	As often as required / requested by landowner
20/11/2021	Directly Affected	WEISSBRUN N	Mr		Detlef		Land Manager	Land Access	Inform/Consult	Public Meeting	As often as required / requested by landowner

APPENDIX E: BACKGROUND INFORMATION DOCUMENT (BID)

ENVIRONMENTAL & SOCIAL IMPACT ASSESSMENT(ESIA)

Background Information Document (BID)

ENVIRONMENTAL & SOCIAL IMPACT ASSESSMENT FOR THE EXPLORATION ACTIVITIES OF BASE AND RARE METALS, DIMENSION STONE AND PRECIOUS METALS ON EXCLUSIVE PROSPECTING LICENSE(EPL) 7125, OUTJO, KUNENE REGION

November 2021

Green Team Consultants

PURPOSE OF THIS DOCUMENT

This Background Information Document (BID) is to provide the Interested and Affected Parties (I&APs), with background information regarding the application for Environmental Authorisation for the exploration activities of base and rare metals, dimension stone and precious metals on EPL 7125, Outjo, Kunene Region (Figure 2). This also includes the required environmental studies to be undertaken as per the Environmental Management Act of 2007 and its regulations of 2012.

As information-sharing platforms, the basis of the public participation process offers I&APs the opportunity to become actively involved, to ensure that all potential environmental issues are considered within the context of the proposed development.

This document indicates how I&APs can get involved inthe project, receive information or raise issues of concern and or interest. Any person, company, authority or other entities that might be directly or indirectly affected by the proposed activity can register as an I&APs to:

Green Team Consultants Physical
Address: Pasteur Street, No: 59
Windhoek West, Ground Floor Unit 2, Office 1
Email: geo@grncons.com
Tel: +264 81 4654842/ +264 85 2225600

PROJECT DESCRIPTION

Green Team Consultants have been appointed by Calculus Commodities (Pty) Ltd (the proponent) to conduct an Environmental Impact Assessment (EIA) for the exploration activities of base and rare metals, dimension stones and precious metals on EPL 7125, Outjo, Kunene Region.

Calculus Commodities (Pty) Ltd is a private research and development firm dedicated to researching and investing in commodity markets. Calculus Commodities (Pty) Ltd has identified an opportunity to explore activities of base and rare metals, dimension stone and precious metals on EPL 7125, Outjo, Kunene region. The proposed project shall act as a source of local employment creation as well as contribute to regional, national and international economic growth.

BIO-PHYSICAL ENVIRONMENT

Outjo is located 157 km south-east of Kamanjab in the Kunene Region, with a population of about 8445 inhabitants.

Outjo and Kamanjab are situated on a cluster of low hills at an elevation of 1260 meters. It also lies in an arid region that has accessible underground water supplies and has the character of a front tire outpost. Temperature ranges from 20-22 Degree Celsius with a dominant wind from the south-east.

The nature of the landscape across the EPL 7125 is characterized by a combination of topography, geological processes and drainage network, crosscutting the Kamanjab Plateau and Karstveld ecoregions. Soils within the area differ within each ecoregion, which can be characterized as litholithic, sandy loams, deep, red, sandy with some calcareous and silty in some areas with low-to-medium soil fertility

POTENTIAL ENVIRONMENTAL IMPACTS

Potential environmental impacts associated with the proposed development have been preliminary studied and will be assessed in the EIA, these are as follows:

- Employment creation;
- Minor waste management;
- Minimal fugitive sand and fine dust;
- Minimal vegetation clearing or thinning;
- Potential to unearth, damage or destroy undiscovered heritage remains;
- Minor disruption to the surrounding community, e.g., some increase in noise levels.

ESIA PROCESS

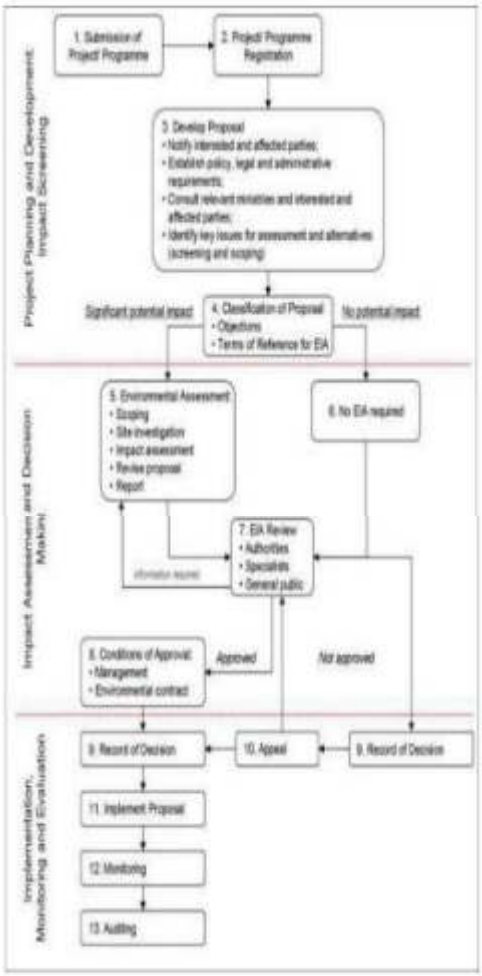

Figure 1. ESIA Process

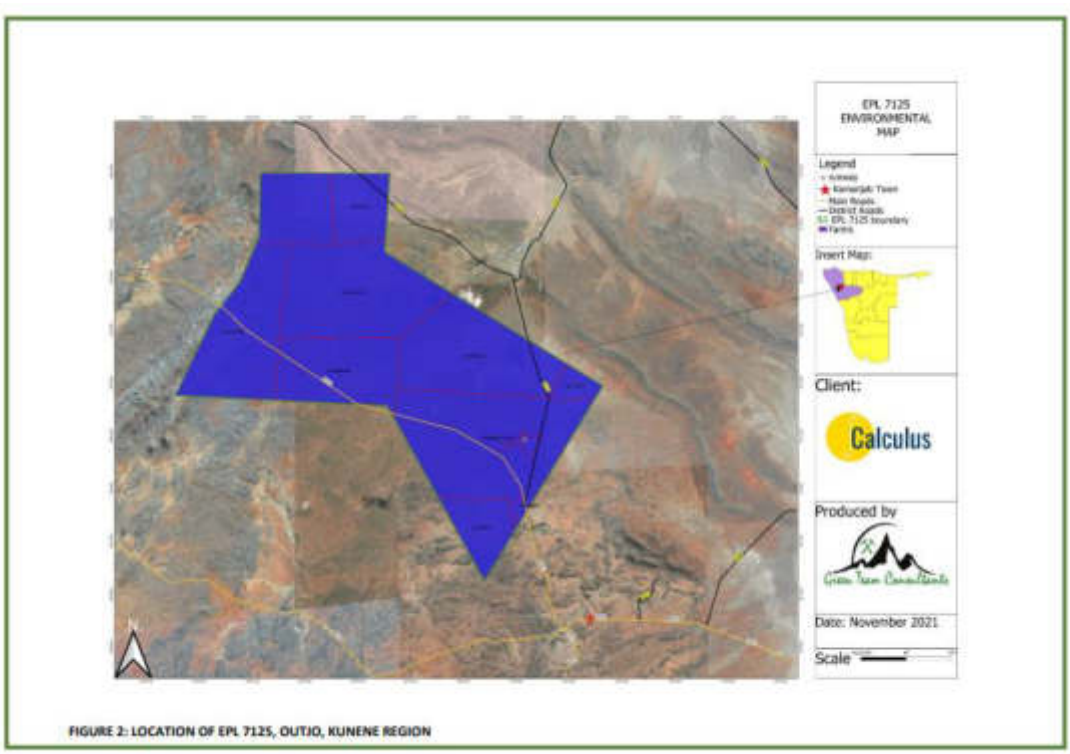

FIGURE 2: LOCATION OF EPL 7125, OUTJO, KUNENE REGION

Green Team Consultants
Office No.2 Ground Floor, Erf 3128 No.59 Pasteur Street Windhoek WestTel: +264 852225600 Cell: +264 81 465 4842
Email: geo@grncons.com
P.O.BOX 997039 Maeura Mall Windhoek

REGISTRATION AND COMMENTS SHEET

ESIA PROCESS FOR THE FOR THE EXPLORATION ACTIVITIES OF BASE AND RARE METALS, DIMENSION STONE AND PRECIOUS METALS ON EPL 7125, OUTJO, KUNENE REGION.

KINDLY COMPLETE THIS FORM AND RETURN IT TO THE ABOVE ADDRESS:

Title:
Name of Respondent:
Organisation/ Company (if applicable):
Postal Address:
Telephone Number:
Mobile Number:
Email address:
Nature of interest:
Any other comments/ concerns:

APPENDIX F: NEWSPAPER ADVERTS

16 | Thursday 11 November 2021 | NEW ERA

NEW ERA Rukwangali

Vatungimo moOpuwo kavagwene nonzapo devhu

Munangereka kagusirepo ehundiro lyendi lyongenderera

Rolanda Routh

Vatano vana kurumbasana mahoroworo gokukwateramo moNcamagoro

John Muyamba

Green Team Consultants

NOTICE TO ALL INTERESTED AND AFFECTED PARTIES

ENVIRONMENTAL & SOCIAL IMPACT ASSESSMENT FOR THE EXPLORATION ACTIVITIES OF BASE AND RARE METALS, DIMENSION STONE AND PRECIOUS METALS ON EXCLUSIVE PROSPECTING LICENSE(EPL) 7125, OUTJO, KUNENE REGION.

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Date: 27th November 2021
Time: 10:30 AM
Venue: Gelbingen Lodge, Kamanjab

All Interested and Affected Parties (I&APs) are encouraged to register with this study. Submit all issues, comments and opinions before 30th November 2021.

Contact person: Sakaria H Natusha
Tel: +264 65 2225690
Email: geo@grncons.com

Thursday 18 November 2021 | NEW ERA

NEWS | 5

Oniipa CEO disputes legality of suspension

… says he is not going anywhere

■ Obrein Simasiku

The CEO of Oniipa Town Council, Junias Jakob, has refused to budge despite being suspended by council late Tuesday afternoon, arguing that the meeting at which he was relieved of duties was illegal and unprocedural.

Jakob said he will not go anywhere and as it stands, according to him, he still remains the legitimate CEO, further saying his alleged removal is just a plot. His suspension was confirmed by mayor David Kambonde as well as management committee (MC) chairperson Jafet August, who Jakob has accused of a witch-hunt.

Jakob, who has been the CEO of Oniipa since 2016, was suspended indefinitely with all benefits to pave way for an investigation into allegations of corruption relating to an electrical servicing tender that was awarded in 2020.

"Council through its special meeting resolved to suspend the CEO because the allegations levelled against him are very serious. Even though he was refusing the suspension claiming that it is being done unprocedurally. But we informed him that when he signed and agreed to enter into the electrical tender agreement, it was done unprocedural, as council was not aware. The same applies when he breached the agreement to which he committed himself," said MC chairperson August.

"So, he is suspended with all benefits pending the finalisation of the investigations. Once we are done, the suspension will be lifted but we have informed the minister accordingly in this regard," he added.

However, the CEO hit back.

"The mayor indicated that the council was indeed bulldozed by the management committee and he could not do anything about it. The mayor and his present councillors were questioned on the legality of their meeting and whether the MC has legitimate power to suspend the CEO but could not answer. The mayor could also not answer apparently the question whether the suspension was consented by the minister," Jakob countered.

Going nowhere... Suspended Oniipa CEO Junias Jakob.
Photo: Contributed

The tender to provide electrical services was awarded to West Trading CC, which sought financial assistance from Namibia Procurement Fund (NamPro Fund).

However, NamPro Fund had a cessation agreement with West Trading relating to a financing scheme, which was awarded to the contractor as start-up capital. This deal has since gone sour after Oniipa Town Council, under the stewardship of Jakob, breached such a contract and paid monies directly to the contractor, in contrast to NamPro Fund as initially agreed.

Part of the condition was that Oniipa Town Council pays all dues to NamPro Fund's account, which will then advance whatever remains to West Trading.

It is alleged that it is the breach of that specific clause that landed Jakob in hot water as he approved funds to be paid to West Trading. NamPro Fund is now suing West Trading and its director, while Oniipa Town Council is listed as a defendant.

The breach amounted to N$448 149.24 on 18 November 2020, as well as another amount of N$200 000 advanced into West Trading account on 28 November. While the initial tender was for over N$1 million.

In his defence, through a 1 800-word letter provided to the media, Jakob said allegations levelled against him are baseless.

Instead, he accused August of spearheading a witch-hunt and trying to taint his professional image.

"This is an internal administrative issue that through his political immaturity went to the extent of politicising and publicising it in the public domain – a conduct which is in contravention with the Code of Conduct of Members of Local Authority Councils of April 2015.

"The council was advised to wait until the legal route of the case is exhausted by the court, but the MC chairperson decided to bulldoze other councillors to peruse an investigation in the project of West Trading CC. I will leave council when its the right time. I was appointed by council with prior approval of the minister and not by the MC chairperson," he stressed.

Jakob revealed their long standing difference stems from clashes when he refused to allow councillors to use council vehicles to attend Swapo meetings, also for refusing to concede to directives of employing people from outside before according the opportunities internally.

Others, include the extension of an internship programme, as well as matters related to procurement, including issues of land compensation and the interference into administrative operations.

osimasiku@nepc.com.na

Ithete calls for speedy realisation of SEZs

■ Staff Reporter

Swapo parliamentarian Natangwe Ithete has called for speedy implementation of special economic zones.

He said once implemented, Namibia will become independent from other economies and achieve its aspirations of industrialisation, economic diversification, and development.

Ithete made this call in parliament on Tuesday while contributing to the mid-term budget review tabled by finance minister Iipumbu Shiimi earlier this month where he announced N$2.2 billion has been made available for reallocation.

Ithete said the medium-term budgetary review does not only facilitate the monitoring by providing a benchmark against budgetary developments over time but it also helps ensure fiscal discipline by making more apparent the impact of policies on the government balance in the coming years.

"I welcome the review because although the country has experienced its worst economic downturn, we continue to thrive and grow with limited revenue," he said.

He said the reallocations of funds to the health ministry to boost the country's Covid response and to the anti-poaching activities as well as support the operations of Namibia Wildlife Resorts (NWR) is crucial.

He said these reallocations are crucial to the recovery of the economy and ensure that Namibia is ready in case another wave of Covid-19 is to come.

He said during the first and second quarters of 2021, Namibia's economic environment was confronted by numerous macroeconomic shocks as well as the Covid-19 pandemic that inflicted the entire global economy.

Besides the loss of lives, Ithete said the pandemic destabilised the economy through disruptions in trade, tourism, production, productivity, supply chains, and other various integration mechanisms.

Key... Swapo MP Natangwe Ithete.
Photo: Nampa

Additionally, he said the real GDP has also contracted in the first and second quarters of 2021.

With regards to the domestic economy, Ithete said the impact of the pandemic has transmitted through trade and tourism restrictions, low commodity demand, and international commodity prices.

He said the contraction in the economy was observed across all sectors. Furthermore, he said, Covid-19 did not only affect the domestic economy but also the trade balance, as the country continues to experience a trade deficit although the total trade has improved over the two quarters.

"It is imperative that even during these trying times, we remain resilient and continue with the implementation of development policies and strategies to ensure that not only the GDP of the country improves but also increase the productivity and government earnings," he said.

Green Team Consultants

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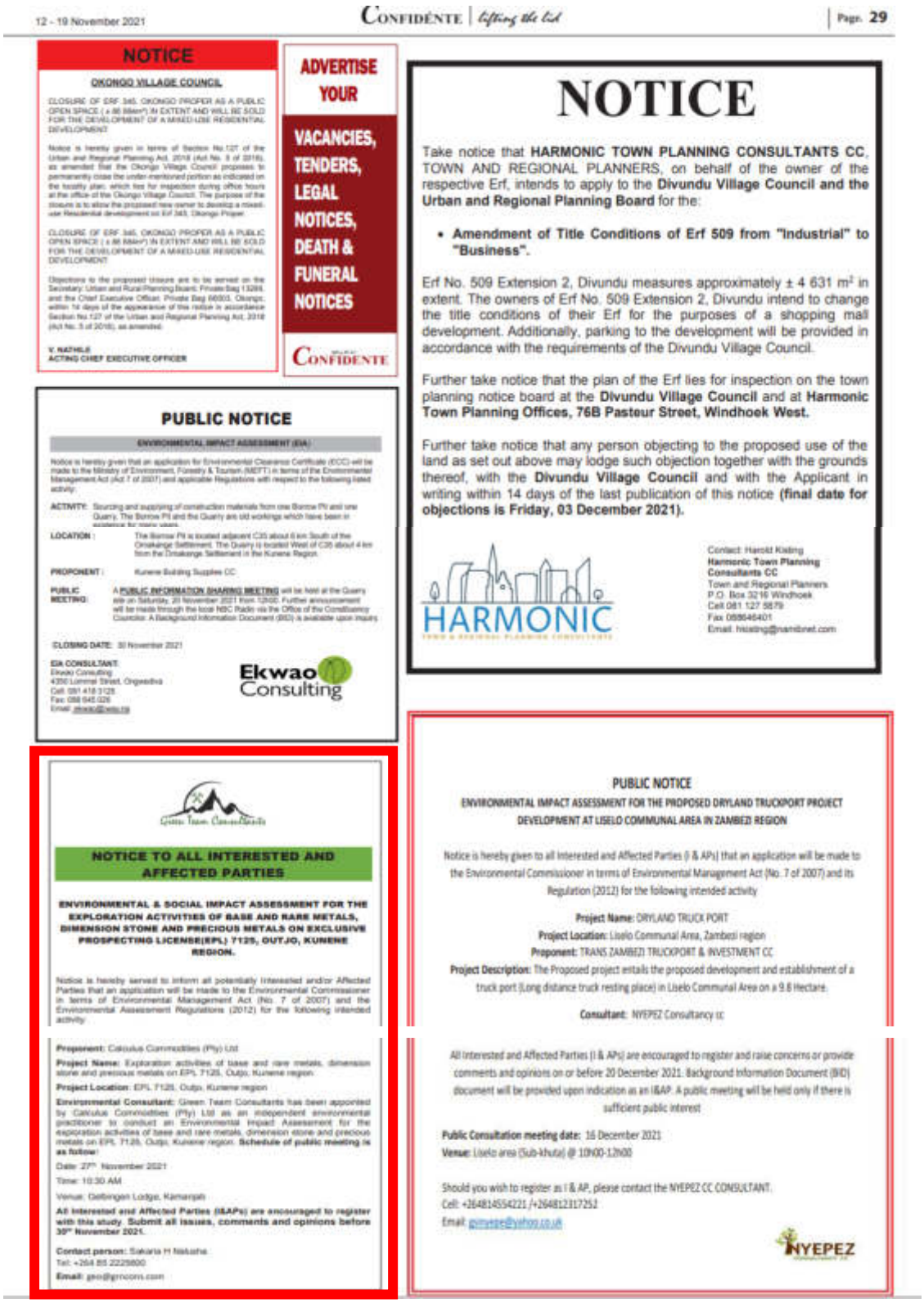
Venue: Gelbingen Lodge, Kamanjab

All Interested and Affected Parties (I&APs) are encouraged to register with this study. Submit all issues, comments and opinions before 30th November 2021.

Contact person: Sakaria H Nakusha
Tel: +264 85 2229800
Email: [illegible]



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NOTICE

OKONGO VILLAGE COUNCIL

CLOSURE OF ERF 345, OKONGO PROPER AS A PUBLIC OPEN SPACE (± 88 88m²) IN EXTENT AND WILL BE SOLD FOR THE DEVELOPMENT OF A MIXED-USE RESIDENTIAL DEVELOPMENT

Notice is hereby given in terms of Section No.127 of the Urban and Regional Planning Act, 2018 (Act No. 5 of 2018), as amended that the Okongo Village Council proposes to permanently close the under-mentioned portion as indicated on the locality plan, which lies for inspection during office hours at the office of the Okongo Village Council. The purpose of the closure is to allow the proposed new owner to develop a mixed-use Residential development on Erf 345, Okongo Proper.

CLOSURE OF ERF 345, OKONGO PROPER AS A PUBLIC OPEN SPACE (± 88 88m²) IN EXTENT AND WILL BE SOLD FOR THE DEVELOPMENT OF A MIXED-USE RESIDENTIAL DEVELOPMENT

Objections to the proposed closure are to be served on the Secretary: Urban and Rural Planning Board, Private Bag 13289, and the Chief Executive Officer, Private Bag 66003, Okongo, within 14 days of the appearance of this notice in accordance Section No.127 of the Urban and Regional Planning Act, 2018 (Act No. 5 of 2018), as amended.

V. NATHILE
ACTING CHIEF EXECUTIVE OFFICER

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PUBLIC NOTICE

ENVIRONMENTAL IMPACT ASSESSMENT (EIA)

Notice is hereby given that an application for Environmental Clearance Certificate (ECC) will be made to the Ministry of Environment, Forestry & Tourism (MEFT) in terms of the Environmental Management Act (Act 7 of 2007) and applicable Regulations with respect to the following listed activity:

ACTIVITY: Sourcing and supplying of construction materials from one Borrow Pit and one Quarry. The Borrow Pit and the Quarry are old workings which have been in existence for many years.

LOCATION: The Borrow Pit is located adjacent C35 about 6 km South of the Omakange Settlement. The Quarry is located West of C35 about 4 km from the Omakange Settlement in the Kunene Region.

PROPONENT: Kunene Building Supplies CC

PUBLIC MEETING: A PUBLIC INFORMATION SHARING MEETING will be held at the Quarry site on Saturday, 20 November 2021 from 12h00. Further announcement will be made through the local NBC Radio via the Office of the Constituency Councilor. A Background Information Document (BID) is available upon inquiry

CLOSING DATE: 30 November 2021

EIA CONSULTANT:
Ekwao Consulting
4350 Lommel Street, Otjiwarongo
Cell: 081 418 3128
Fax: 088 645 026
Email: ekwao@iway.na

Ekwao Consulting

NOTICE

Take notice that **HARMONIC TOWN PLANNING CONSULTANTS CC**, TOWN AND REGIONAL PLANNERS, on behalf of the owner of the respective Erf, intends to apply to the **Divundu Village Council and the Urban and Regional Planning Board** for the:

- **Amendment of Title Conditions of Erf 509 from "Industrial" to "Business".**

Erf No. 509 Extension 2, Divundu measures approximately ± 4 631 m² in extent. The owners of Erf No. 509 Extension 2, Divundu intend to change the title conditions of their Erf for the purposes of a shopping mall development. Additionally, parking to the development will be provided in accordance with the requirements of the Divundu Village Council.

Further take notice that the plan of the Erf lies for inspection on the town planning notice board at the **Divundu Village Council** and at **Harmonic Town Planning Offices, 76B Pasteur Street, Windhoek West.**

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 **Divundu Village Council** and with the Applicant in writing within 14 days of the last publication of this notice **(final date for objections is Friday, 03 December 2021).**

HARMONIC
TOWN & REGIONAL PLANNING CONSULTANTS

Contact: Harold Kisting
Harmonic Town Planning Consultants CC
Town and Regional Planners
P.O. Box 3216 Windhoek
Cell 081 127 5879
Fax 088646401
Email: hkisting@namibnet.com

NOTICE TO ALL INTERESTED AND AFFECTED PARTIES

ENVIRONMENTAL & SOCIAL IMPACT ASSESSMENT FOR THE EXPLORATION ACTIVITIES OF BASE AND RARE METALS, DIMENSION STONE AND PRECIOUS METALS ON EXCLUSIVE PROSPECTING LICENSE(EPL) 7125, OUTJO, KUNENE REGION.

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Time: 10:30 AM

Venue: Gelbingen Lodge, Kamanjab

All interested and Affected Parties (I&APs) are encouraged to register with this study. Submit all issues, comments and opinions before 30th November 2021.

Contact person: Sakaria H Nakusha
Tel: +264 85 2229800
Email: geo@grncons.com

PUBLIC NOTICE

ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED DRYLAND TRUCKPORT PROJECT DEVELOPMENT AT LISELO COMMUNAL AREA IN ZAMBEZI REGION

Notice is hereby given to all Interested and Affected Parties (I & APs) that an application will be made to the Environmental Commissioner in terms of Environmental Management Act (No. 7 of 2007) and its Regulation (2012) for the following intended activity

Project Name: DRYLAND TRUCK PORT
Project Location: Liselo Communal Area, Zambezi region
Proponent: TRANS ZAMBEZI TRUCKPORT & INVESTMENT CC
Project Description: The Proposed project entails the proposed development and establishment of a truck port (Long distance truck resting place) in Liselo Communal Area on a 9.8 Hectare.

Consultant: NYEPEZ Consultancy cc

All Interested and Affected Parties (I & APs) are encouraged to register and raise concerns or provide comments and opinions on or before 20 December 2021. Background Information Document (BID) document will be provided upon indication as an I&AP. A public meeting will be held only if there is sufficient public interest

Public Consultation meeting date: 16 December 2021
Venue: Liselo area (Sub-khuta) @ 10h00-12h00

Should you wish to register as I & AP, please contact the NYEPEZ CC CONSULTANT.
Cell: +264814554221 /+264812317252
Email: gunyepe@yahoo.co.uk

NYEPEZ

19 - 25 November 2021

CONFIDENTE | lifting the lid

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ECT

NOTICE FOR PUBLIC PARTICIPATION
ENVIRONMENTAL IMPACT ASSESSMENT

NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT AND PUBLIC PARTICIPATION PROCESS: THE PROPOSED CONSTRUCTION AND OPERATION OF A TELECOMMUNICATION BASE TRANSCEIVER STATION (BTS) TOWER IN MONGESA EXTENSION 6, SWAKOPMUND-OKONGO REGION.

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Road Safety and Holiday Edition
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Publication Date:
9th December 2021
Deadline:
6th December 2021
Contact: Mandy Mumba
081 8958296

NOTICE

Take notice that HARMONIC TOWN PLANNING CONSULTANTS CC, TOWN AND REGIONAL PLANNERS, on behalf of the owner of the respective Erf, intends to apply to the Divundu Village Council and the Urban and Regional Planning Board for the:

• Amendment of Title Conditions of Erf 509 from "Industrial" to "Business".

Erf No. 509 Extension 2, Divundu measures approximately ± 4 631 m² in extent. The owners of Erf No. 509 Extension 2, Divundu intend to change the title conditions of their Erf for the purposes of a shopping mall development. Additionally, parking to the development will be provided in accordance with the requirements of the Divundu Village Council.

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HARMONIC

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TWAHAFA REAL ESTATE
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Karina Twahafa
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N$ 1 420 000
SECURITY
SOLE MANDATE

WANAHEDA
N$ 740 000 Incl. costs
URGENT SALE
SOLE MANDATE

WANAHEDA
N$ 785 000 Incl. costs
TOWNHOUSE
SOLE MANDATE

ONDANGWA
N$ 2 300 000
BUSINESS-ZONED ERF
SOLE MANDATE

SOWETO/KATUTURA
N$ 760 000 Incl. costs
SELLING BELOW VALUATION
SOLE MANDATE

EROS
N$ 2 900 000
BUSINESS LOCATION
SOLE MANDATE

APPENDIX G: PUBLIC MEETING MINUTES AND ATTENDANCE REGISTER

Green Team Consultants

Attendance Register: Public Participation Meeting
Place: Kamanjab, Anns Lodge
Date:27 Nov 2021
Time:10h30 AM

Environmental & Social Impact Assessment for the Exploration Activities of Base and Rare Metals, Dimension Stone and Precious Metals on Exclusive Prospecting License (EPL) 7125, Outjo District, Kunene Region

	Name	Organization/Company	Email	Phone
1.	Mr Kreiner Huberfus	Ekonga Farm	ekonga@iway.na	067 332000 081 4298444
2.	Mr. Nbie Thomas	Trust SWARTS	N/A	081 722 2832 081 2939174
3.	Mr BACH von H	Farmer Owner	Svonbach@iway.na	088280929
4.	Heimstadt Detlef	Farmer Owner/Manager	not available	081 285 9870
5.				
6.				
7.				
8.				

Mr Kreiner Huberfus, farm owner (149 Kamanjab)

Comment 1: *I am aware of the exploration and in the past, there has been a lot of geologists exploring in the area. They used to take soil samples and the impact on the environment was very low. If the same technique is used then I believe the impact on the environment will be low. If heavy machinery is to be deployed, I am worried because it will disturb the ground and hunting will be difficult and hunters may get the trophy they do not want. I believe crime will increase because a lot of people will be in the area.*

Response 1: Vehicles that will be used for exploration activities are the drill rig truck, excavator, light delivery vehicles (LDVs). Where it is required, Calculus Commodities Pty Ltd shall main the road conditions on regular basis. Calculus Commodities (Pty) Ltd will ensure compliance with the mitigation measures regarding soil and wildlife disturbance as summarised by the EMP, which provides good practice measures.

Mr Heimstadt Detlef, farm owner (Weissbrunn)

Comment 2: *I want to know about the project and why on these farms?*

Response 2: This is an exploration project by Calculus Commodities, a private company that was granted permission to explore for minerals and commodities by the Ministry of Mines and Energy under its license No.7125. The exploration activities involve geological mapping, ground-truthing, sample collection, where is needed. This might have a negative and positive impact on the environment and our report needs to highlight these impacts. The licence granted looks mostly underground and it covers all these farms. The decision to allocate an EPL on more than one farm was made by the Government of Namibia. These farms show the potential of the minerals that Calculus Commodities has an interest in.

Mr Bach von H, farm owner (Farm Benlah)

Comment 3: *I am not against any development; however, all activities have to be done according to the laws of the owner of the farm. Should be in my farm these activities were going on, I will allow it only if they are accompanied by one of my workers who then have to be paid by them. There be no fire made in the farm, no camping, no car servicing and roads in the farm has to pay for to be used. After excavation of the topsoil or cutting down of trees, the consultant or the owner of the EPL has to cover and replant the trees.*

Response 3: An agreement with the landowner shall be in place before the work commence on their property. The agreement will have all terms and conditions that shall be agreed upon by both parties. All other matters have been cover in the environmental scoping report and EMP.

APPENDIX H: ENVIRONMENTAL MANAGEMENT PLAN