

## **ENVIRONMENTAL MANAGEMENT PLAN (EMP)**

THE PROPOSED EXPLORATION ACTIVITIES OF DIMENSION STONE, BASE & RARE METALS, INDUSTRIAL MINERALS AND PRECIOUS METALS GROUPS WITHIN THE EXCLUSIVE PROSPECTING LICENSE (EPL) 8738, LOCATED NEAR KALKFELD, OTJOZONDJUPA REGION

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## **TABLE OF CONTENTS**

1	INTRO	ODUCTION	3
	1.1	Project Background	3
	1.2	Aim of the Draft EMP	6
	1.3	Appointed Environmental Assessment Practitioner	8
	1.4	Environmental Assessment Legal Requirements	8
	1.5	Draft EMP Limitations	11
2	ROLE	S AND RESPONSIBILITIES	11
	2.1 (DEA	Competent Monitoring Authority: Department of Environmental Affairs and Forest	-
	2.2	The Proponent or Proponent's Representative (PR)	11
	2.3	Exploration Manager	12
	2.4	Environmental Control Officer (ECO)	12
3	ENVII	RONMENTAL MANAGEMENT & MITIGATION MEASURES	13
	3.1	Management of Key Potential Adverse Environmental Impacts	13
	3.2	Aim of the Environmental Management Plan Actions	13
	3.3 Plan)	Planning, Prospecting and Exploration Phase Management Action Plans (Mitigation 15)	on
	3.4	Monitoring Action Plans (Monitoring Plan)	40
	3.5	Decommissioning and Rehabilitation	44
4	ENVI	RONMENTAL MONITORING AND REPORTING	45
5	APPE	NDIX A: CHANCE FINDS PROCEDURE (AFTER KINAHAN, 2020)	46
LIS	ST OF	FIGURES AND TABLES	
		Location of EPL 8738 near Kalkfeld in the Erongo Region	
Fig	ure 2 –	Farms around the EPL 8738	5
		Applicable legal requirements and permits to the activities of the EPL 8738	
		Management and mitigation action plans for the planning and exploration phases	
ıat	ne 3 –	Management action plans for Monitoring	40

#### 1 INTRODUCTION

#### 1.1 Project Background

Simed Trading CC (the Proponent) has applied to the Ministry of Mines and Energy (MME) to be granted the Exclusive Prospecting Licence (EPL) 8738. In terms of Section 48 (4) of the Minerals (Prospecting and Mining) Act, No. 33 of 1992, a notice was given by MME to grant the EPL application which was lodged on the 18<sup>th</sup> of January 2022. However, an Environmental Scoping Assessment (ESA) study was given as a prerequisite for the approval and granting of the Environmental Clearance Certificate (ECC) for the EPL to the Proponent.

The targeted commodities for the proposed exploration activities are Dimension Stones, Base & Rare Metals, Industrial Minerals, Precious Metals and Semi-Precious Stones.

The proposed activity covers 39329.9425 hectares and it is located approximately 20 km west of the Kalkfeld Settlement in the Otjozondjupa Region. The EPL is accessible via the C33 national road, onto the D2403 or D2338 roads and it includes portions of the following farms: Oviraura North East, Oviraura, Evergreen, Klein Okarumue North 71, Eberhardshohe 81, Zierenberg 70, Klein Okarumue 72, Okarumue 82, Eremutua North East 25, Ozongombo, Onjombojumuwiwa 32, Eremutua South East, Otjeriwanga 33, Groot Ongariwanda, and Okamborombonga 30 (Figure 1 & Figure 2).

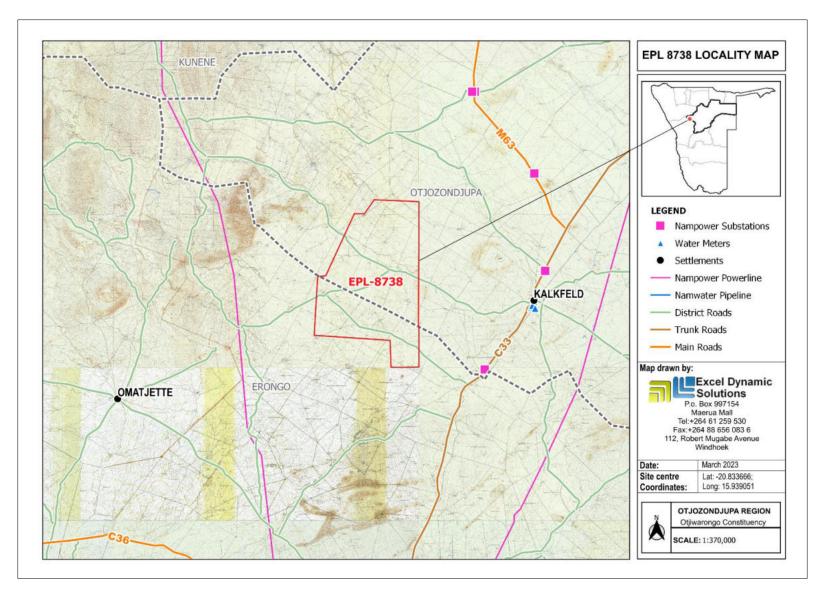


Figure 1 – Location of EPL 8738 near Kalkfeld in the Erongo Region

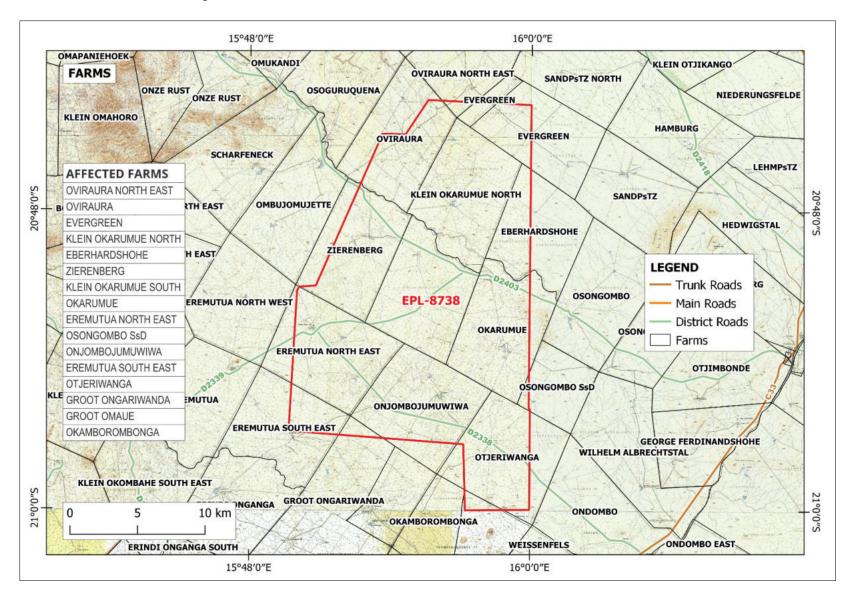


Figure 2 - Farms around the EPL 8738

Section 27 (1) of the Environmental Management Act No. 7 of 2007 and in line with Sections 32-37 as gazetted in 2012, the proposed prospecting and exploration activities on the EPL 8738 form part of the Listed activities that may not be conducted without an Environmental Impact Assessment (EIA) being undertaken. The relevant listed activities as per EIA regulations are:

- 3.1 The construction of facilities for any process or activities which requires a license, right of other forms of authorization, and the renewal of a license, right or other form of authorization, in terms of the Minerals (Prospecting and Mining Act, 1992).
- 3.2 other forms of mining or extraction of any natural resources whether regulated by law or not.
- 3.3 Resource extraction, manipulation, conservation and related activities.

This statutory document has been prepared as per requirement in accordance with Section 8 of the Environmental Management Act No. 7 of 2007. The compilation of this Environmental Management Plan (EMP) is one of the legally binding requirements that support the ESA report and as part of the environmental clearance submission, the consultant is required to:

- Prepare an explicit EMP to be used as a guideline to monitor compliance with the recommendations stipulated in the EIA and to assist in managing and monitoring activities throughout the exploration and maintenance of the proposed exploration activities and sites on the EPL.
- Elucidate in the EMP the roles and responsibilities of the Proponent, the contractors, and any other identified stakeholders.

#### 1.2 Aim of the Draft EMP

Regulation 8 (j) of the EIA Regulations (2012) requires that a draft EMP shall be included as part of the Environmental Assessment (EA) scoping report. A 'Management Plan' is defined as:

"...a plan that describes how activities that may have significant environments effects on the environment are to be mitigated, controlled and monitored."

An EMP is one of the most important outputs of the EA process as it synthesizes all the proposed management & mitigation and monitoring actions, set to a timeline and with specific assigned responsibilities. It provides a link between the impacts identified in the EA process and the required mitigation measures to be implemented during exploration. It is important to note that

an EMP is a statutory document and a person who contravenes the provisions of this EMP may face imprisonment and/or a fine. This EMP is a living document and can be amended to adapt to address project changes and/or environmental conditions and feedback from compliance monitoring.

The purpose of this document is, therefore, to guide environmental management throughout the different phases of the proposed exploration activities, namely: planning, prospecting & exploration, and decommissioning & rehabilitation phase:

- Planning phase: This is the stage of the proposed project during which the Proponent prepares all the administrative and technical requirements needed for the actual works on the ground. The planning includes things like obtaining the necessary permitting and authorization from relevant national and local stakeholders (such as affected parties), facilitating the recruitment and procurement processes, etc., in preparation for the exploration activities (and site maintenance).
- Prospecting and Exploration phase: This is the phase where The Proponent will do prospecting and exploration activities for the targeted commodities groups and undertake related activities on site. It is also the phase during which maintenance of the area, equipment and machinery is done by the Proponent.
- Decommissioning and Rehabilitation: This is the phase during which the exploration activities on the EPL cease. The decommissioning of the EPL exploration activities may be considered because of poor results or declining in the focus commodity market price. Before the decommissioning phase, The Proponent will need to put site rehabilitation measures in place.

**Environmental Monitoring Requirements:** To support and ensure that the proposed mitigation measures are achieving the desired results, a monitoring plan must be implemented alongside the mitigation plan.

This draft EMP will be used by the Proponent, employees and/or contractors to provide management measures to be undertaken during mining activities, to address the environmental impacts identified in the scoping report and ensure that the impacts on the environment are avoided or limited if they cannot be avoided completely.

#### 1.3 Appointed Environmental Assessment Practitioner

To fulfil the requirements of the Environmental Management Act No.7 of 2007 and its 2012 EIA Regulations, the Proponent appointed Excel Dynamic Solutions (Pty) Ltd (EDS), an independent consulting company to conduct the required EA process on their behalf. This draft EMP will be submitted as part of an application for the proposed prospecting and exploration method on the EPL 8738 to the Environmental Commissioner at the Department of Environmental Affairs and Forestry (DEAF), at the Ministry of Environment, Forestry and Tourism (MEFT) to support the decision making.

## 1.4 Environmental Assessment Legal Requirements

The content of the EMP must meet the requirements of Section 8 (j) of the EIA Regulations. The EMP must address the potential environmental impacts of the prospecting and exploration activities on the environment throughout the project life cycle. It must also include a system for assessment of the effectiveness of monitoring and management arrangements after project implementation.

The Proponent, therefore, has the responsibility to ensure that the prospecting and exploration activities as well as the EA process conform to the principles of the Environmental Management Act No.7 of 2007 and must ensure that employees act in accordance with such principles. A list of the requirements of an EMP as stipulated by Section 8 (e) of the EIA Regulations, primarily on specific approvals and permits that may be required for the activities required of the EPL 8738 are highlighted in **Table 1**.

Table 1 – Applicable legal requirements and permits to the activities of the EPL 8738

Legislation/Policy/ Guideline	Relevant Provisions	Implications for this project
Environmental Management Act	Requires that projects with	The Act and its regulations should inform
EMA (No 7 of 2007)	significant environmental	and guide this EA process.
	impacts are subject to an environmental assessment process (Section 27).  Details principles that are to guide all EIAs.	Should the ECC be issued to the Proponent, it should be renewed every 3 years, counting from the date of issue.

Legislation/Policy/ Guideline	Relevant Provisions	Implications for this project
Environmental Impact Assessment (EIA) Regulations GN 28-30 (GG 4878)	Details requirements for public consultation within a given environmental assessment process (GN 30 S21).	Contact details at the Department of Environmental Affairs and Forestry (DEAF), Ministry of Environment, Forestry and Tourism (MEFT),
	Details the requirements for what should be included in a Scoping Report (GN 30 S8) and an Assessment Report (GN 30 S15).	Office of the Environmental Commissioner Tel: +264 61 284 2701
Minerals (Prospecting and Mining) Act (No. 33 of 1992)	Section 48 (3): To enable the Minister to consider any application referred to in section 47 the Minister may (b) require the person concerned by notice in writing to (i) carry out or cause to be carried out such environmental impact studies as may be specified in the notice.  Section 54(2): details provisions about the decommissioning or abandonment of a mine.	The Proponent should ensure that all necessary permits/authorization for these EPL are obtained from the Ministry of Mines and Energy (MME).  Contact person and details at the MME Mining Commissioner  Tel: +264 61 284 8167
	Under this Act (Section 51 (1a)), the holder of a mineral license cannot exercise any rights on private land until the holder has entered into an agreement with the owner regarding payment of compensation.	The Proponent must timeously enter into and sign an access and land use agreement (consent) with the respective affected parties.
Petroleum Products and Energy Act (No. 13 of 1990) Regulations (2001)	Regulation 3(2)(b) states that "No person shall possess or store any fuel except under authority of a license or a certificate, excluding a person who possesses or stores such fuel in a quantity of 600 litres or less in any container kept at a place outside a local authority area"	The Proponent should obtain the necessary authorisation form the MME for the storage of fuel on-site.  Ministry of Mines and Energy:  Director – Petroleum Affairs  Tel: +264 61 284 8291

Legislation/Policy/ Guideline	Relevant Provisions	Implications for this project
Forestry Act 12 of	Prohibits the removal of any	Should there be protected plant species,
2001 Amended Act 13 of 2005	vegetation within 100 m from a	which are known to occur within the project
2001, Amended Act 13 of 2005	watercourse (Forestry Act S22	site, these are required to be removed and
	(1)). The Act prohibits the	a permit should be obtained from the
	removal of and transport of	nearest Forestry office (Ministry of
	various protected plant species.	Environment, Forestry and Tourism
		(MEFT)) prior to removing them.
		Director of Forestry Division
		Tel: +264 61 208 7320
National Heritage Act No. 76 of	Call for the protection and	Should any archaeological material, such as
1969	conservation of heritage	bones, old weapons/equipment etc be
	resources and artefacts.	found on the EPL site, work should stop
		immediately, and the National Heritage
		Council of Namibia must be informed as
		soon as possible. The Heritage Council will
		then decide to clear the area or decide to
		conserve the site or material.
		Contact Details at National Heritage
		Council of Namibia
		Regional Heritage Office – National
		Heritage Council of Namibia
		Tel: (06) 301 903

#### 1.5 Draft EMP Limitations

This EMP has been drafted with the acknowledgment of the following limitations:

This EMP has been drafted based on the EA conducted for targeted prospecting and exploration activities of Dimension Stones, Base & Rare Metals, Industrial Minerals, Precious Metals and Semi-Precious Stones.

The mitigation measures recommended in this EMP document are based on the risks/impacts in the ESA Report which are identified based on the project description as provided by the Proponent, site investigation, experience, relevant literature and I&APs input, and there was no specialist study conducted except the Heritage Impact Assessment (HIA). Should the scope of the proposed project change, the risks/impacts will have to be reassessed and mitigation measures provided accordingly.

## 2 ROLES AND RESPONSIBILITIES

The Proponent is ultimately responsible for the implementation of the EMP. However, the Proponent may delegate this responsibility at any time, as they deem necessary during the project cycle. The roles and responsibilities of all delegates/parties involved in the effective implementation of this EMP are set out below:

## 2.1 Competent Monitoring Authority: Department of Environmental Affairs and Forestry (DEAF, MEFT))

The DEAF is responsible for enforcing compliance with the EMA, its regulations and full implementation of this EMP. The competent authority also reviews biannual reports and grants ECC renewal after 3 years.

## 2.2 The Proponent or Proponent's Representative (PR)

If the Proponent does not personally manage all aspects and phases' activities referred to in this EMP, they should assign this responsibility to a suitably qualified individual referred to in this plan as the Proponent's Representative (PR). The PR may be appointed to manage all phases of the project or to manage only the EMP aspects of the project. The PR's responsibilities may include:

- Managing the implementation of this EMP and updating and maintaining it when necessary.
- Management and monitoring of individuals and/ or equipment on-site in terms of compliance with this EMP.

Issuing fines for contravening EMP provisions.

#### 2.3 Exploration Manager

The Exploration manager will be responsible to ensure that the prospecting and exploration activities of the project are completed on time. The Exploration manager's roles and responsibilities will include:

- Ensure that relevant commitments contained in the EMP Action Plans are adhered to.
- Ensure all employees are trained in procedures entailed in their duties.
- Maintain records of all relevant environmental documentation for the project.
- Reviewing the EMP annually.
- Issuing fines to individuals who may be in breach of the EMP provision and if necessary, removing such individuals from the site.
- Cooperate with all relevant interested and affected parties/stakeholders.
- Development and management of schedules for daily activities.

#### 2.4 Environmental Control Officer (ECO)

The Proponent may assign the responsibility of ensuring EMP compliance throughout the project life cycle to a designated member of staff or externally qualified and experienced persons, referred to in this EMP as the Environmental Control Officer (ECO) or Safety, Health and Environment (SHE) Officer. The ECO/SHE will have the following responsibilities:

- Management and facilitation of communication between the Proponent, PR and I&APs regarding this EMP.
- Conducting site inspections (recommended frequency is monthly or weekly as recommended please refer to **Table 3**) of all areas concerning the implementation of this EMP, including monitor and auditing the implementation.
- Advising the PR on the removal of person(s) and/or equipment not complying with the provisions of this EMP.
- Making recommendations to the PR concerning the issuing of fines for contraventions of the EMP.
- Undertaking an annual review of the EMP and recommending additions and/or changes to this document.
- Ensuring that the exploration activities on site are conducted in accordance with the International System Organization (ISO) standard 14001: 2015.

#### Archaeology: Chance Finds Procedure (CFP) Implementation Roles

The following personnel have been assigned responsibilities as per the Chance Finds procedure (**Appendix A**):

- Operator: To exercise due caution if archaeological remains are found.
- Foreman: To secure the site and advise management timeously.
- **Superintendent**: To determine safe working boundaries and request an inspection.
- Archaeologist: To inspect, identify, advise management, and recover remains.

#### 3 ENVIRONMENTAL MANAGEMENT & MITIGATION MEASURES

#### 3.1 Management of Key Potential Adverse Environmental Impacts

The ESA has identified the key potential negative impacts as summarized below:

- Potential disturbance of grazing land areas
- Physical land/soil disturbance
- Impact on local biodiversity (fauna and flora)
- Habitat destruction or disturbance
- Potential illegal wildlife hunting and livestock theft
- Potential impact on water resources (pollution and over-abstraction)
- Air quality issue: potential dust generated
- Potential occupational Health and Safety Risks
- Vehicular traffic safety and impact on services infrastructure such as local roads
- Vibrations and noise associated with drilling activities may be a nuisance to locals
- Environmental pollution (solid waste, soil and wastewater)
- Archaeological and heritage resources impact
- Potential social nuisance and conflicts (theft, damage to properties, etc.)

## 3.2 Aim of the Environmental Management Plan Actions

The management actions of the EMP aim to avoid the above-listed potential negative impacts, where possible. Where impacts cannot be avoided, measures are provided to reduce the significance of these impacts.

Management actions recommended for the potential impacts rated in the ESA carried out for the prospecting and exploration activities were based on the following project stages (phases):

- Planning, Prospecting and Exploration (and site maintenance) phases (Table 2)
- Monitoring (Table 3)
- Decommissioning and Rehabilitation (Section 3.5).

The responsible person(s) should assess these actions in detail and acknowledge their commitment to the specific management actions detailed in the phases given under the following subsections.

## 3.3 Planning, Prospecting and Exploration Phase Management Action Plans (Mitigation Plan)

The management action plans recommended for this phase are presented (Table 2).

Table 2 – Management and mitigation action plans for the planning and exploration phases

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
		PI	LANNING PHASE			
EMP implementation and training	Lack of EMP awareness and implications thereof	-A Comprehensive Health and Safety Plan for the project activities should be compiled. This will include all the necessary health, safety, and environmental considerations applicable to respective works on sites.  An EMP non-compliance penalty system should be implemented on-site.  The Proponent should appoint an ECO to be responsible for	-All required Plans and systems are compiled and in place and Environmental Control Officer (ECO) is appointed	Proponent	EMP Implementation Plans and Systems	Pre-exploration works
		managing the EMP implementation and monitoring.				
Authorizations	Lack of Agreements, Permits/ Licenses	-All the required agreements and licenses or permits should be applied for and signed, respectively before the commencement of work on the EPL, or as required.  -The permits, and agreements referred to herein include:	-Applicable permits and licenses to be obtained from relevant authorities and kept on-site for records keeping and future inspections.	Proponent	Proponent  Respective authorities and services provider(s)	Prior to exploration works
		<ul> <li>land access by the landowners.</li> </ul>	-Agreements/permits signed and obtained			

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
		<ul> <li>waste management disposal permits from the relevant facility operator/owner</li> <li>water supply agreements.</li> <li>Abstraction permits</li> <li>Onsite fuel storage permit from MME for any petroleum stored onsite.</li> </ul>	from on time, min. 2 months prior to planned commencement date of works.			
Communication between the Proponent and other neighbouring land users and custodians	Lack of communication (proper liaison) between other land users and Proponent with regards to land use	-The Proponent should appoint a Public Relation Officer (PRO) to liaise with the land users.  -A clear communication procedure/plan which should include a grievance mechanism.	A PR is appointed  -Ongoing Landowners' Engagement & Consultation throughout the project cycles, when and as required. PRO contact details to be provided to the affected landowners	Proponent	PRO Complaint's logbook	PRO appointment (Prior to project activities) and their responsibilities throughout the project activities
Employment	Creation of employment opportunities	-Non-skilled labour should be sourced from the locally affected area (people from the local communities), in accordance with	-Number of locals employed for exploration activities	Proponent in collaboration with the Exploration	Record of employees	Pre-project activities and when necessary, throughout

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
		procedures approved by the relevant authorities.		Manager (if necessary)		
		-Preference of local people for employment for jobs should be implemented, i.e., permanent residents from the surrounding areas should be employed for the unskilled labour preferentially to out-of-area people (outsiders) where possible. Out-of-area employment should be justified, for example by the unavailability of local skills only.  -Equal opportunity should be provided for both men and women, when and where possible.				
Specialised procurement of services	Contractors and services	-All services related to exploration activities such as trenching/pitting and drilling that the Proponent may need, preference should be given to local providers of such services. If not available locally, the services search should be extended to a regional level (Otjozondjupa Region), nationally and lastly, internationally.	Number of hired contractors.	Proponent	Record of hired or contracted companies or services providers	Pre-project activities and when necessary, throughout
				Exploration Manager		

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
		PROSPECTING	G AND EXPLORATION P	HASE		
EMP implementation and training	Lack of EMP awareness and implications thereof	-EMP trainings should be provided to all new workers on site.  -All site personnel should be aware of necessary health, safety, and environmental considerations applicable to their respective work.  -The implementation of this EMP should be monitored.  The site should be inspected, and a compliance audit done throughout the project activities, monthly.  An EMP non-compliance penalty system should be implemented on site.	Compliance monitoring conducted bi-annually and should be recorded.	ECO	Bi-annual reports  Records of EMP training conducted.	Throughout the exploration phase and as required
Communication between the Proponent and other neighbouring land users and custodians	Lack of communication (proper liaison) between landowners and Proponent with regards to land use	-The PRO should be introduced to the land owners and his or her contact details provided to them prior to undertaking activities for easy communication during exploration activities.  The Proponent should compile a clear communication procedure / plan which should include a grievance and response mechanism.	PRO is part of the project personnel.  Ongoing land owners' Engagement & Consultation throughout the project cycles, when and as required	PRO	Complaint's logbook PRO contact details to be provided to the affected land users.  Records of land owners' consultation  Land access agreement conditions	Throughout the exploration activities

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
			-Community grievances addressed to their satisfaction			
Grazing land	Loss of grazing areas	-Any unnecessary removal or destruction of grazing land, due to exploration activities should be avoided.	-Limited cleared sites -Less access tracks	Proponent / Exploration Manager	Grievance logbook	Throughout the phases
		-Vegetation found on the site, but not in the targeted exploration areas should not be removed but left to preserve biodiversity and grazing land.	-Complaints from land owners regarding significant land/vegetation clearing	ECO		
		-Workers should refrain from driving off road and creating unnecessary tracks that may contribute to loss of grazing land. Any new track should be approved by the landowner.	-No new tracks or access roads created without a permission from the landowner			
		-Environmental awareness on the importance of the preservation of grazing land for livestock and wildlife should be provided to the workers.				
Water Resources Use	Water demand and availability)	-Drinking water abstracted from boreholes or supplied by carting should be used efficiently, and recycling and re-using of water on certain site activities should be encouraged, where necessary and possible.	Water supply agreements  Proof/ recording/ quantification of water saving efforts.	Proponent	Water supplier  Water supplying agreements	Once off supply agreement

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
		-The Proponent should consider carting water for drilling from elsewhere outside the site area such as from Omaruru to relieve pressure of the available resources. Agreements of water supply should be made between the willing water supplier or drill a borehole and the Proponent.  -Water reuse/recycling methods should be implemented as far as practicable such that the water used to cool off exploration equipment should be captured and used for the cleaning of project equipment, if possible.  -Water storage tanks should be inspected daily to ensure that there is no leakage, resulting in wasted water on site.  -Water conservation awareness and saving measures training should be provided to all the project workers in both phases so that they understand the importance of conserving water and become accountable.		Exploration Manager	Proponent  Water storage tanks on site	Throughout the exploration phase
Soils	Physical soil/land disturbance	-Overburden soils and rocks should be handled more efficiently during operations to avoid erosion	No proliferation of informal vehicle tracks.	ECO	Proponent  All personnel	Throughout the exploration phase

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
	and loss of topsoil	when subjected erosional processes.	No new erosion gullies.		Complaint's logbook	
		-Stockpiled topsoil and drill materials should be used to backfill the excavated and disturbed site areas/spots.				
		-Soils that are not within the intended and targeted footprints of the site should be left undisturbed and soil conservation implemented as far as possible.				
		-Project vehicles and machinery should stick to access roads provide and or meant for the project operations but not to unnecessarily create further tracks on site by driving everywhere resulting in soil compaction.				
		-The disturbance of the soil surface in the vicinity of the working sites must be minimised to prevent wind erosion. The footprint of the EPL site area must be kept small as much as possible and existing access road are to be always utilised to avoid off road tracks.				
		-The project footprint area should not be cleared entirely, and the exploration vehicles and equipment must be placed in such				

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
		a way that soil disturbance is minimised, and the site should be rehabilitated after each onsite work.  -Soil erosion mitigation measures should be in place and implemented in agreement the landowner.				
Soils and water resources	Soils and water resources pollution	-Oil and wastewater spill control preventive measures should be in place on site to management soil contamination, thus preventing and minimizing the contamination from reaching water resources bodies. Some of the soil control preventive measures that can be implemented include:  -Spill control preventive measures should be in place on site to management soil contamination, thus preventing and or minimizing the contamination from reaching water resources bodies.  -All project employees should be sensitized about the impacts of soil pollution and advised to follow appropriate fuel delivery and handling procedures.  -The Proponent should develop and prepare countermeasures to	No complaints of pollutants on the soils and eventually in the water due to exploration activities  No visible oil spills on the ground or pollution spots.	ECO	Complaint's logbook  Waste containers  Non-permeable material to cover the ground surface at areas where hydrocarbons and potential pollutants are utilized.	Throughout exploration phase

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
		contain, clean up, and mitigate the effects of an oil spill. This includes keeping spill response procedures and a well-stocked cache of supplies easily accessible.				
		-Ensure employees receive basic Spill Prevention, Control, and Countermeasure (SPCC) Plan training and mentor new workers as they get hired.				
		-Project machines and equipment should be equipped with drip trays to contain possible oil spills when operated on site.				
		-Contaminated soil should be removed immediately and put in a designate waste type container for later disposal at an approved hazardous waste treatment facility.				
		-Drip trays must be readily available and monitored to ensure that accidental fuel spills along the tank trailer path/route around the exploration sites are cleaned immediately and reported to the Exploration manager.				
		-Washing of equipment contaminated hydrocarbons, as well as the washing and servicing of vehicles should take place at a				

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
		dedicated area, where contaminants are prevented from contaminating soil or water resources.				
		-Portable toilets, if available should be periodically emptied out before reaching capacity and transported to a wastewater treatment facility.				
Biodiversity	Loss of Fauna and Flora	Fauna:  -The Poaching and livestock theft are strictly prohibited.  -The project workers should refrain from killing or snaring livestock or wildlife.  -No employees, including vehicles are allowed to venture into a Nogo area without a written approval by the landowner.  -Access roads should be utilized appropriately in a manner that	No disturbance to unmarked areas.  No complaints from locals regarding unauthorised vegetation removal or cutting down of trees.  No complaints of wildlife hunting by the project personnel.	ECO	Barricading tape (to indicate working areas)  Complaint logbook	Throughout the exploration phase
		disturbs minimal land areas as possible, thus minimizing faunal habitat destruction.  -Breeding sites for faunal species that are found within the site and nearby should not be disturbed.  -Environmental awareness on the importance of faunal preservation	disturbance and destruction of site vegetation and faunal species  Visible preservation of onsite vegetation			

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
		should be provided to the workers and contractors.				
		Flora:				
		-The Proponent should avoid unnecessary removal of vegetation, thus promoting a balance between biodiversity and their exploration works.				
		-Vegetation found on the site, but not in the targeted exploration areas should not be removed but left to preserve biodiversity on the site.				
		-Movement of vehicle and machinery should be restricted to existing roads and tracks to prevent unnecessary damage to the vegetation.				
		-No employees, including vehicles are allowed to venture into a Nogo area without a written approval by the landowner.				
		-Design access roads appropriately in a manner that disturbs minimal land areas as possible.				
		-Make use of the existing road network as much as possible and avoid off-road driving, thus				

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
		minimizing onsite floral destruction.				
		-All new tracks or access roads should be approved by the landowner.				
		-Vegetation clearing to be kept to a minimum. The vegetation of the site is largely low and open and therefore whole-sale vegetation clearing should only be applied where necessary and within the EPL footprint.				
		-Vegetation found on the site, but not in the targeted areas should not be removed but left to preserve biodiversity on the site.				
		-Environmental awareness on the importance of floral biodiversity preservation should be provided to the workers and contractors.				
Illegal hunting and livestock theft	Illegal hunting of wildlife and livestock theft	-No illegal wildlife hunting or livestock theft are permittedSite personnel should refrain from killing/poaching or set snares or intentionally disturbing wildlife, or any faunal species.	Incident reports of illegal hunting of wildlife or livestock theft	ECO	Complaint's logbook  Anti-poaching Police Unit	During site set up, and throughout exploration phase
Land Use	Conflict between land uses and	-Exploration activities should not in any way hinder the existing land uses within the EPL but rather	Land access and use permits/authorizations.	PRO	Proponent	Throughout the exploration phase

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
	exploration activities	promote co-existence throughout the project operations while respecting other land users.  -The project workers and vehicles should be limited to the actual EPL active sites only but not unnecessarily wander and drive around other land uses sites, respectively.  -The Proponent should ensure that their activities comply with the conditions set by the competent, regulatory, and affected authorities such that the proposed exploration activities do not severely impact the different existing activities around the EPL.	Compliance with conditions set within operational permits by relevant and affected authorities.  No complaints of significant interference from the neighbouring land users	Proponent	Relevant authorities (MEFT, MME, etc.)	
Road use and safety	Increase in vehicular traffic flow	-Vehicles should be driven only on existing access roads and necessary temporary access roads only leading to EPL mapped sites; no new roads should be constructed where possible.  -The transportation of project materials, equipment and machinery should be limited to once or twice a week only, but not every day.  -The heavy truck loads should	No complaints from members of the public regarding vehicular traffic issues related to the project activities.  All personnel operating the project vehicles and machinery are appropriately licensed and possession of valid driving licenses.	Proponent	Number of project vehicles on site  Names of drivers  Frequency of water carting	Throughout exploration phase  Site access permit (s) to be applied for and obtained prior to commencement of exploration works

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
		limit while transporting materials and equipment/machinery on the public and access roads.  -The carted water into the area from outside the project area should be done once or twice a week in container that can supply and store water for most of the week, thus reducing the number of trucks on the road.  -Drivers of all project phases' vehicles should be in possession of valid and appropriate driving licenses.  Vehicle drivers should adhere to the road safety rules.  -Drivers should drive slowly (40km/hour or less), and on the lookout for wildlife and people.  -Project vehicles should be in a road worthy condition and serviced regularly to avoid accidents because of mechanical faults of vehicles.	Demarcated areas for parking, offloading, and loading zones are on sites.  If required, site access road permits obtained, and requirements fulfilled.  No creation of unnecessary tracks on site.			
Local roads	Overuse and maintenance	-The heavy trucks transporting materials and services to site should be scheduled to travel at least twice or thrice a week to	-Visible efforts of maintaining access and community roads by the Proponent	Proponent	Road clearing or cleaning machinery (bull dozers, grander)	Throughout the exploration phase, when necessary

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
		avoid daily travelling to site, unless on cases of emergencies.  -The Proponent should consider frequent maintenance of local roads to ensure that the roads are in a good condition for other roads users such as travellers from and outside the area.				
Occupational Health and safety	General health and safety associated with project activities in both phases	-The Proponent should commit to and make provision for bi-annual full medical check-up for all the workers at site to monitor the impact of project related activities on employees.  -As part of their induction, the project workers should be provided with an awareness training of the risks of mishandling equipment and materials on site as well as health and safety risk associated with their respective jobs.  -When working on site, employees should be properly equipped with adequate personal protective equipment (PPE) such as coveralls, gloves, safety boots, earplugs, dust masks, safety glasses, etc.	Comprehensive health and safety plan for all exploration activities compiled.	Exploration Manager  ECO	Occupational Health and Safety Personnel Health and Safety Trainings  First aid kits  Trained worker to administer first aid	Throughout the exploration phase and trainings offered as and when required

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
		-Heavy vehicle, equipment and fuel storage site should be properly secured, and appropriate warning signage placed where visible.				
		-Firefighting equipment should be installed in vehicles and other appropriate location.				
		-Drilled boreholes that will no longer be in use or to be used later after being drilled should be properly marked for visibility and capped/closed off.				
		-Ensure that after completion of exploration holes these are capped and closed off and that trenches are backfilled and levelled,				
		-An emergency preparedness plan should be compiled, and all personnel appropriately trained.				
		-Workers should not be allowed to drink alcohol prior to and during working hours nor allowed on site when under the influence of alcohol as this may lead to mishandling of equipment which				
		results into injuries and other health and safety risks.				

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
		-The site areas that are considered temporary risks should be equipped with "danger" or "cautionary" signs.				
	Accidental fire outbreak	-Portable fire extinguishers (should be charged) and other firefighting equipment should be provided on site.  -No open fires to be created by project personnel on land owner's property.  -Potential flammable areas and structures such as fuel storage tanks should be marked as such with clearly visible signage.	No wildfires recorded (due to presence of workers)	Proponent	Fire extinguishers (1 per vehicle) and 1 per working site	Throughout exploration phase
Archaeology and heritage	Accidental disturbance and destruction of archaeological or heritage objects and sites	-A "No-Go-Area" should be put in place where there is evidence of archaeological site, historical, rock paintings, cave/rock shelter or past human dwellings. It can be a demarcation by fencing off or avoid the site completely by not working closely or near the known site.  -On-site personnel (s) and contractor crews must be sensitized to exercise and recognize "chance finds heritage" in the course of their work.	Preservation of all artefacts and objects that are discovered on and around project site  No-Go Areas avoided	Proponent	Salvage equipment  Archaeologist	As and when required, i.e., prior to site set up, and during exploration.

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
		-During the prospecting and exploration works, it is important to take note and recognize any significant material being unearthed and making the correct judgment on which actions should be taken (refer to CFP Appendix attached to the EMP).		Operator		
		-The footprint impact of the proposed prospecting and exploration activities should be kept to minimal to limit the possibility of encountering chance finds within the EPL boundaries. The Proponent should keep a buffer of 1.5 km on all the archaeological/cultural sites observed within the project site and broader area throughout their stay (duration of their presence) in the area.		Foreman  Superintended  Archaeologist	Flag tapes GPS	
		<ul> <li>-A landscape approach of the site management must consider culture and heritage features in the overall planning of exploration infrastructures within and beyond the license boundaries.</li> <li>-The Proponent and Contractors should adhere to the provisions of Section 55 of the National Heritage Act in event significant heritage and culture features are</li> </ul>				

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
		discovered while conducting exploration works.				
		-Subject to the recommendations herein made and the implementation of the mitigation measures and adoption of the project Archaeological Management Plan (AMP)/EMP should be complied.				
		-An archaeologist or Heritage specialist should be onsite to monitor all significant earth moving activities that may be implemented as part of the proposed project activities.				
		-When the removal of topsoil and subsoil on the site for exploration purposes, the site should be monitored for subsurface archaeological materials by a qualified Archaeologist.				
		-Show overall commitment and compliance by adapting "minimalistic or zero damage approach".				
		-In addition to these recommendations above, there should be a controlled movement of the contractor, exploration crews, equipment, setting up of camps and everyone else involved				

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
		in the prospecting and exploration activities to limit the proliferation of informal pathways, gully erosion and disturbance to surface and sub-surface artifacts such as stone tools and other buried materials etc.				
Littering and waste management (general waste and sanitation)	Environmental Pollution	-Workers should be sensitized/inducted to dispose of waste in a responsible manner and not to litter.  -After each daily works, the Proponent should ensure that there are no wastes left on the sites.  -All domestic and general project waste produced daily should be contained until such that time it will be transported to designated waste sites.  -No waste may be buried or burned on site or anywhere else.  -The exploration site should be equipped with separate waste bins for hazardous and general/domestic waste.  -Sewage waste should be stored as per the available sewage system (long drop toilets) supplied	No visible litter around the project area  Provision of sufficient waste storage containers  Waste management awareness	ECO	Waste disposal permits to municipalities  Environmental, Health and Safety Statements and Policy	Throughout exploration phase

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
		on site and regularly disposed of at the nearest treatment facility				
		-Oil spills should be taken care of by removing and treating soils affected by the spill.				
		-A penalty system for irresponsible disposal of waste on site and anywhere in the area should be implemented.				
		-Careful storage and handling of hydrocarbons on site is essential, therefore should be enforced.				
		-Potential contaminants such as hydrocarbons and wastewater should be contained on site and disposed of in accordance with municipal wastewater discharge standards so that they do not contaminate surrounding soils and eventually groundwater.				
		-An emergency plan should be available for major/minor spills at the site during exploration (with consideration of air, groundwater, soil, and surface water) and during the transportation of the product(s) to the sites.				

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
	Wastewater generated by exploration workers living on-site.	-Provision of toilet facilities for workers (mobile/portable chemical toilet if possible)Emptying of chemical toilets according to the manufacturer's specifications.	Adequate toilet and basic ablution facilities on site.	Proponent	Chemical toilets  Sewage removal operator  waste treatment agents/chemicals	Throughout exploration phase
Air Quality	Dust generation	-Exploration vehicles should not drive at a speed more than 40 km/h to avoid dust generation around the area.  -When and if the project reaches the advanced stages of exploration, a reasonable amount of water should be used on gravel roads, using regular water sprays on gravel routes and near exploration sites to suppress the dust that may be emanating from certain exploration areas on the EPL.  -Dust masks, eye protective glasses and other respiratory personal protective equipment (PPE) such as face masks should be provided to the workers on site drilling areas, where they are exposed to dust.	No complaints from the public about vehicle emissions and dust generation.  Visible efforts to curb dust	ECO	Complaint's logbook  Dust suppressant (Water)	Throughout exploration phase

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
		-Excavating equipment should be regularly maintained to ensure drilling and excavation efficiency and so to reduce dust generation and harmful gaseous emissions.				
Noise	Nuisance	-Noise from project vehicles and equipment on the working sites of the EPL should be at acceptable levels.  -The exploration times should be set such that, no such activities are carried out during the night or very early in the mornings (to be limited between 8am and 5pm on weekdays).  -Exploration hours should be restricted to between 08h00 and 17h00 to avoid noise and vibrations generated by exploration equipment and the movement of vehicles before or after hours.  -When operating the drilling machinery onsite, workers should be equipped with personal protective equipment (PPE) such as earplugs to reduce exposure to noise.	Complaints from land owners and neighbouring land users about excessive noise.	ECO	Complaint's logbook  Noise protective equipment for workers	Throughout exploration phase

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
Social nuisance	Local properties disturbance and values	-The Proponent should inform their workers on the importance of respecting the land owners' properties by not intruding or damage their houses, fences or snaring and killing their livestock.  -Any workers or site employees that will be found guilty of intruding peoples 'privately owned properties should be called in for disciplinary hearing and/or dealt with as per their employer' (Proponent)'s code of employment conduct.	No complaints from land owners about property theft, disturbance, or intrusion	ECO	Grievance logbook  Land access agreement conditions	Throughout the exploration phase
		-The project workers should be advised to respect the community and local's private properties, values, and norms.				
		-No worker should be allowed to wander in people's private yards or fences without permission.				
		-The project workers are not allowed to kill or in any way disturb local livestock.				
		-The cutting down or damaging of vegetation belonging to the affected land owners or neighbouring is strictly prohibited.				
		-Out-of-area workers that may be employed (due to their unique				

Aspect	Impact	Management and Mitigation Measure(s)	Key Performance Indicator (KPI)	Implementation Responsibility	Resources	Timeline
		work skills) on site should be sensitized on the importance of respecting the local values and norms.  PROGRESSIVE REHABILITY	TATION AND DECOMMIS	SSIONING PHASE		
Rehabilitation	Disturbance and damaging of land site land	-All drilled boreholes and excavated pits related to the project activities should be capped and backfilled, respectively.  -All waste generated and stored on site during exploration activities should be disposed of at the respective nearest solid waste management sites.  -The stockpiled topsoil should be levelled soon after completion of works at sites.  -Any temporary setup on site should be dismantled, and the area rehabilitated as far as practicable, to their original state.  -Explored areas on worksites should be progressively rehabilitated by stockpiling and backfilling.  -Provision of both financial and technical resources for progressive rehabilitation.	Capped boreholes and backfilled pits  No sign of waste or littering seen on site and around site areas.  Carrying away of waste, and removal of vehicles and equipment from site  No stockpiled topsoil (topsoil is levelled after completion of each work)  Campsite dismantled and materials taken away from site.  Visible signs of stockpiled topsoil	Proponent	Excavators and other backfilling/demolishing machinery  Record of pits excavated, and boreholes drilled (if any)  Waste containers on sites  Photo records of backfilled sites  Records of finances set aside for decommissioning activities	Progressive rehabilitation done throughout the exploration phase and complete decommission and rehabilitation done after completion of exploration works.

## 3.4 Monitoring Action Plans (Monitoring Plan)

To support and ensure that the proposed mitigation measures are achieving the desired results, a monitoring plan must be implemented. The monitoring action plans recommended for planned exploration works are presented in **Table 3**.

Table 3 - Management action plans for Monitoring

Environmental Feature	Impact	Monitoring Actions	Implementation responsibility	Frequent	Threshold	Action if threshold is exceeded
Archaeology and Heritage	Rock paintings	No exploration activities at the outcrops with rock art paintings  Implementing the CFP (Appendix 1)	ECO Archaeologist	Weekly	Observed damage to the paintings	Remedy the consequences by halting the activities
Soils	Loss of topsoil	All measures should be considered to present the loss of topsoil	ECO and Exploration Manager	weekly	Proliferation of new vehicle tracks	Rehabilitation of affected areas
Monitoring	EMP non-compliance	The ECO or the Proponent/Contractor should monitor the implementation of this EMP to ensure compliance.  The ECO(s) should inspect the site throughout the exploration period and after completion.	ECO	Daily/weekly/ monthly	Increase in health, safety and environmental damage incidence	Daily HSE talks, Remedy the consequences
Biodiversity	Loss of biodiversity	Comply to marked no-go areas and avoid areas sensitive to any type of disturbance.  Clear only footprint areas to maintain as much of the remaining natural vegetation on site and to prevent loss of habitat (if so, advised by MEFT).	ECO Workers involved in this phase	Weekly	Vegetation clearance outside of marked areas.	Rehabilitation of affected areas to the satisfaction of the ECO

Environme Feature	ntal	Impact	Monitoring Actions	Implementation responsibility	Frequent	Threshold	Action if threshold is exceeded
Health	and	Health and	-Workers should be trained on how to	ECO	Daily/Weekly	Health and safety	Remedy the
Safety		safety of the	handle materials and equipment on site			incident	consequences
		workers	(if they do not already know how to) to				
			avoid injuries.				
			-Exploration equipment and materials				
			transported to site should be securely	Worker Involved in			
			fastened to the vehicles (trucks and	this phase			
			cars). This is to ensure that the				
			materials and equipment do not fall off				
			the vehicles and cause injuries to				
			anyone while transporting them.				
			- All personnel should be provided with				
			appropriate personal protective				
			equipment (PPE), such as gloves,				
			masks, safety boots, safety glasses and				
			hard hats always during exploration				
			hours on site to prevent serious injuries				
			or loss of life.				
			-No employee should be allowed to				
			drink alcohol prior to and during working				
			hours as this may lead to mishandling				
			of equipment which results into injuries				
			and other health and safety risks.				

Environmental Feature	Impact	Monitoring Actions	Implementation responsibility	Frequent	Threshold	Action if threshold is exceeded
Neighbouring	Disturbance	Exploration works schedule should be	ECO	Weekly	A logged	Revision of site
land users to the site		limited to normal working hours, between 08h00 and 17h00. This is to ensure generated noise does not become nuisance to the neighbours.	Exploration Manager		complaint about excessive noise	activities
Waste	Environmental Pollution	-The site should be always kept tidy.  All domestic and general construction waste produced daily should be cleaned and contained daily to prevent environmental pollution.  -Separate waste containers (bins) for	ECO	Daily	Visible litter around project site  A logged complaint	Clean-up of the affected areas and ensuring exploration workers utilise waste containers provided.
		hazardous and domestic / general waste must be provided on site to avoid mixing of waste.	All workers involved in this phase.			
Transport	Transportation of workers to and from site	-Project workers will be transported, in an SUV, bus (or similar suitable passenger vehicle) to and from site to ensure workers safety.  -No off-road driving	ECO	Daily	A logged complaint about lack of workers transport which is affecting their occupational safety and health	-Provide a worker's transport which should comply with Road Authority Act and other applicable legislations.
Vehicular traffic safety	Increase in local traffic flow.	-All drivers of the project vehicles should be in possession of valid and appropriate driving licenses to operate such vehicles.	ECO	Weekly	A logged complaint about traffic increase or damage to roads	Find alternative access roads for the team. Rehabilitation of affected roads

Environmental Feature	Impact	Monitoring Actions	Implementation responsibility	Frequent	Threshold	Action if threshold is exceeded
		-Project vehicles should be in a road				
		worthy condition and serviced regularly				
		to avoid accidents because of				
		mechanical faults of vehicles.				
		-Vehicle drivers should not be allowed				
		to operate vehicles while under the				
		influence of alcohol.				
		-No heavy trucks or project related				
		vehicles should be parked on				
		biologically sensitive areas.				

#### 3.5 Decommissioning and Rehabilitation

Successful rehabilitation requires careful consideration of the local ecological context in combination with rehabilitation goals. The most important steps in undertaking a successful rehabilitation program are planning and environmental awareness on the importance of progressive rehabilitation (or post-activity rehabilitation), and its importance to the environment. Furthermore, to successfully implement the planned rehabilitation, practically, this will depend on specific factors such as the rehabilitation program, characteristics of the site, nature of the disturbance, rehabilitation methods, as well as resource availability.

Rehabilitation of the EPL site may include the re-vegetation of areas with locally indigenous species; the refilling of trenches in such a way that subsoil is replaced first, and topsoil replaces last.

Any excavated pits should not only be filled with sand alone, as wind will scour the sand and reestablish the holes.

#### Site-Specific Rehabilitation Plan

To ensure successful rehabilitation of the disturbed areas, the Proponent intends to:

- Utilize stockpiled subsoil and topsoil to backfill the excavated pits/trenches.
- Make financial provisions that will be used for the post-exploration rehabilitation program.
- Backfilling of all pits and trenches with loose materials.
- Levelling of topsoil that was stockpiled for exploration purposes.
- Removal of project vehicles and equipment from the site and taking to designated parking facility off-site.
- All project support structures such as ablution facilities, and storage containers/tanks shall be demolished, and the waste taken to designated sites. The site areas on which these structures were set up will be rehabilitated to a pre-exploration state.
- All accumulated hazardous, solid, and general waste will be removed from the site and transported to designated waste management facilities.

Decommissioning and rehabilitation will involve the following:

- Capping of drill holes and backfilling of all excavated pits with loose materials.
- Collecting and disposing of all waste at the nearest landfill/ dumpsite.
- Levelling the stockpiled topsoil during the exploration phase.

 Any temporary structure should be dismantled, and the area should be rehabilitated as far as possible to its pre-exploration state.

#### 4 ENVIRONMENTAL MONITORING AND REPORTING

To minimize the "medium" and uphold "low" significance ratings of impacts identified and assessed in the ESA report, monitoring reports are to be compiled and submitted to the DEAF for archiving on a bi-annual basis or as requested by the competent authority. It is a good practice that can enable monitoring compliance with the ECC conditions, which can be used during renewal. Therefore, it is the responsibility of the Proponent to monitor and ensure that the biannual reports are submitted to the DEAF for compliance with the environmental legislation, and record-keeping purposes.

# 5 APPENDIX A: CHANCE FINDS PROCEDURE (AFTER KINAHAN, 2020)

Areas of proposed development activity are subject to heritage survey and assessment at the planning stage. These surveys are based on surface indications alone, and it is, therefore, possible that sites or items of heritage significance will be found during development work. The procedure set out here covers the reporting and management of such findings.

**Scope**: The "chance finds" procedure covers the actions to be taken from the discovery of a heritage site or item to its investigation and assessment by a trained archaeologist or other appropriately qualified people.

**Compliance**: The "chance finds" procedure is intended to ensure compliance with relevant provisions of the National Heritage Act (27 of 2004), especially Section 55 (4): "a person who discovers any archaeological .... object ......must as soon as practicable report the discovery to the Council". The procedure of reporting set out below must be observed so that heritage remains reported to the NHC are correctly identified in the field.

Manager/Supervisor must report the finding to the following competent authorities:

- National Heritage Council of Namibia (061 244 375)
- National Museum (061 276800),
- National Forensic Laboratory (061 240461).

Archaeological material must NOT be touched. Tempering with the materials is an offence under the heritage act and punishable upon conviction by the law.

#### Responsibility:

**Operator:** To exercise due caution if archaeological remains are found

**Foreman:** To secure site and advise management timeously

**Superintendent:** To determine safe working boundary and request inspection

**Archaeologist:** To inspect, identify, advise management, and recover remains

#### **Procedure:**

Action by person identifying archaeological or heritage material:

- a) If operating machinery or equipment stop work
- b) Identify the site with flag tape
- c) Determine GPS position if possible
- d) Report findings to foreman

#### Action by foreman

- a) Report findings, site location and actions taken to superintendent
- b) Cease any works in immediate vicinity

#### Action by superintendent

- a) Visit site and determine whether work can proceed without damage to findings
- b) Determine and mark exclusion boundary
- c) Site location and details to be added to project GIS for field confirmation by archaeologist

#### Action by Archaeologist

- a) Inspect site and confirm addition to project GIS
- b) Advise NHC and request written permission to remove findings from work area
- c) Recovery, packaging and labelling of findings for transfer to National Museum

#### In the event of discovering human remains

- a) Actions as above
- b) Field inspection by archaeologist to confirm that remains are human
- c) Advise and liaise with NHC and Police
- d) Recovery of remains and removal to National Museum or National Forensic Laboratory, as directed.