APPLICATION NO: 231108002443 ENVIRONMENTAL MANAGEMENT PLAN FOR PROPOSED EXPLORATION ACTIVITIES ON EPLS 6773, 7440, 7423, 7442, & 7718 AROUND SESFONTEIN AREA, KUNENE REGION



Prepared By

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DOCUMENT INFORMATION

Title	RENEWAL OF ENVIRONMENTAL CLEARANCE CERTIFICATE
	FOR EXPLORATION ACTIVITIES ON EPL 6773, 7440, 7423,
	7442, & 7718 AROUND SESFONTEIN AREA, KUNENE REGION
Project location	Around Sesfontein Area, Kunene Region
Client	Kaoko Mining Namibia Pty Ltd
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Project Manager e-mail	info@ecowiseec.com
Date last printed	16/11/2023
Date last saved	14/11/2023 - 15:17
Comments	
Keywords	RENEWAL OF ENVIRONMENTAL CLEARANCE CERTIFICATE
	FOR EXPLORATION ACTIVITIES
Application No:	231108002443
Revision Number	1
Status	Final
Issue Date	November 2023

DOCUMENT AUTHENTICATION

This updated Environmental Management Plan (EMP) report has been prepared by Eco-Wise Environmental Consulting cc in accordance with the Environmental Management Act No 7 of 2007 (EMA) and its regulations of 2012 which requires the holder of the environmental clearance certificate to make an application to the Environment Commissioner for a renewal. We the undersigned, certify that the particulars in this document are correct and righteous to the best of our knowledge.

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ENVIRONMENTAL AUTHORIZATION INFORMATION

Please note that the environmental clearance certificate should be issued out to the client. All comments and enquiries during the evaluation of this document must be addressed to the Environmental Consultant. Please forward the clearance certificate to the consultant.

EXECUTIVE SUMMARY

Kaoko Mining Namibia (Pty) Ltd being the Proponent is proposing to renew the Environmental Clearance Certificate (ECC) for Exclusive Prospecting License (EPL) 6773, 7440, 7423, 7442, & 7718 around Sesfontein area, Kunene Region Namibia.The shareholders of Kaoko Mining Namibia (Pty) Ltd are Namibian citizens who came together and grouped their licenses.

The Proponent is exploring for medium to large minable copper deposits. Basing on the information provided by Ministry of Mines and Energy, the EPLs are projected to host commodities such as base and rare metals, dimension stone, industrial minerals, precious metals. An Environmental Impact Assessment (EIA) was conducted for this project and an ECC was issued in 2020-11-16 hence the need for a renewal.

Basing on the information provided by the Proponent, for the past three years, they have managed to conduct mapping and sampling activities which was done through physical surveying. The geologists would walk around the area to observe the surface geology and then identify and document the rock types. In addition, using the GPS the location of potential areas was also recorded. In addition, rock samples representative of the ore body was also collected in instances where further verification was required. To note, minimum to no impacts is presented during the stage of mapping and sampling. Kaoko Mining Namibia (Pty) Ltd therefore appointed Eco-Wise Environmental Consulting cc (consultant) to make an application for the renewal of the ECC.

The sections highlighted in green are added sections.

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ACRONYM AND ABBREVIATIONS

Below is a list of acronyms and abbreviations used in this report

ACRONYM	MEANING		
EMP	Environmental Management Plan		
ECC	Environmental Clearance Certificate		
EPL	Exclusive Prospecting License		
EIA	Environmental Impact Assessment		
EMA	Environmental Management Plan		
LTD	Limited Company		
MEFT	Ministry of Environment Forestry and Tourism		
MME	Ministry of Mines and Energy		

1.1 BACKGROUND

Kaoko Mining Namibia (Pty) Ltd being the Proponent, proposes to conduct an application for the renewal of the Environmental Clearance Certificate (ECC) for exploration activities on EPLs 6773, 7440, 7423, 7442 & 7718 around Sesfontein area, Kunene Region.

Eco-Wise Environmental Consulting cc as an independent environmental consultancy has been appointed by the Proponent to undertake the application process for the renewal of the Environmental Clearance Certificate for the proposed project. The EMP has been developed in terms of the Environmental Management Act (EMA) No 7 of 2007, EIA Regulations of 2012, related international environmental treaties and conventions binding to Namibia. This Environmental Management Plan (EMP) has been developed to manage all the impacts, which were identified during the environmental assessment of the project. Exploration is listed as an activity, which cannot be undertaken without an EIA. The project therefore falls under mining and quarrying activities.

1.2 PROJECT ACTIVITIES

The following activities will be done under exploration:

- Research and reconnaissance
- Trenching and drilling
- Geochemical sampling and analysis
- Mapping

1.3 CURRENT ACTIVITIES

Exploration is a stage of investigating or examining about the geological condition of an area. The main aim at this stage is to find high quality ore. The Proponent conducted sampling and mapping activities while the ECC was still valid as shown in Table 1. The process of field surveys, sampling by collecting rock outcrop, and mapping during exploration is a systematic approach that involves collecting data directly from the field to understand the geological characteristics of an area.

Table 1: shows activities conducted during the phase of the ECC

Planning	 Identifying the area of interest and planning for the fieldwork Reviewing of existing geological maps and other available data Development of a fieldwork plan including issues to do with accessibility, safety and logistical requirements.
Field Reconnaissance:	 Walking around the area and observing the surface geology and noting prominent rock outcrops, structural features, and any visible signs of mineralization.
Mapping	 Identifying and documenting rock type and structural characteristics.
Sampling	Rock samples are collected for further analysis.Rock outcrops are picked
Documentation	 Recording of detailed information about each sample.
Reporting	Documentation of observations, mapping results, sample analyses, and interpretations is done in a comprehensive report.

1.4 PROJECT LOCATION

The EPLs are located around the area of Sesfontein in Kunene Region as shown in figure 1. The coordinates for the location of the EPLs are as follows:

Table 2: shows coordinates for the EPLs

EPL	AREA	Communal	COORDINATES				
	(HECTARES)	Conservancy	Corner 1	Corner 2	Corner 3	Corner 4	Middle Point
6773	12116.8657	Okangundumba, Ozondundu, Otjambangu, Otjikondavirongo	18° 49' 34" S 13° 34' 27' E	18° 49' 34" S 13° 38' 11" E	18° 55' 23" S 13° 43' 49' E	18° 55' 08" S 13° 34′ 24" E	18°52'13" 13°37'22"
7440	19974.8864	Anabeb, Ozondundu	19° 00' 01" S 13° 46' 37' E	19° 00' 03" S 13° 55' 36" E	19° 07' 36" S 13° 52' 11" E		19°3'07" 13°50'16"
7718	13060.5647	Okangundumba, Ozondundu, Anabeb, Sesfontein, Otjambangu, Otjikondavirongo	18° 55' 11" S 13° 34' 31" E	18° 55' 26' S 13° 43' 50' E	18° 59' 55" S 13° 46' 30' E		18°57'16" 13°40'29"
7442	19972.0116	Anabeb, Ozondundu, Omatendeka	19° 00' 01" S 13° 48' 07" E	19° 00' 01" S 13° 56' 29" E	19° 07' 13" S 13° 54' 53" E	19° 07' 06' S 13° 47' 45' E	19°3'17" 13°51'50"
7423	19960.6526	Sesfontein, Anabeb	19° 00' 06" S 13° 38' 39" E	19° 00' 01" S 13° 46' 26" E	19° 07' 34" S 13° 46' 24" E	19° 07' 34" S 13° 38' 36" E	19°3'38" 13°42'09"

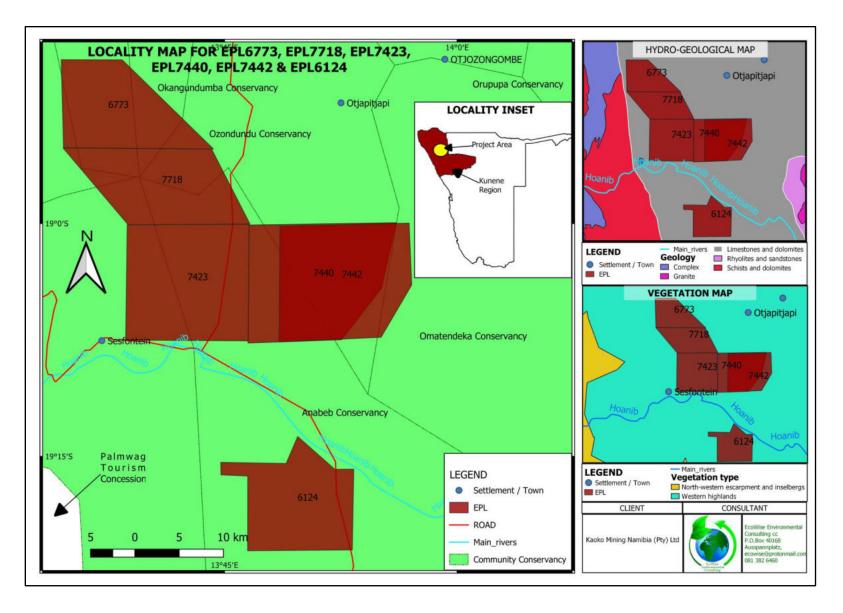


Figure 1: Location Map

2. EMP OBJECTIVES

The EMP aims to take a pro-active route by addressing potential problems before they occur. The objectives of the EMP are therefore;

- To outline mitigation measures in order to manage environmental and socio-economic impacts associated with the project
- Provide a framework for implementing the management actions recommended in the EIA for exploration activities.
- To ensure that the project will comply with relevant environmental legislations of Namibia and other requirements throughout its activities.

3. POLICY, LEGAL AND ADMINISTRATIVE FRAMEWORK

The proponent will be required to abide to different legislations relating to the project. The Environmental Management Act No. 7 of 2007 and its Regulation of 2012 were the main legislations used as guiding tools during the development of the EMP. Table 3, indicate the relevant legislations related to the project.

 Table 3: Relevant legislation and policies related to the project

Aspect	Legislation	Relevant Provisions	Relevance to the Project
The Constitution	Namibian Constitution First Amendment Act 34 of 1998	 According to article 91(c) it provides for duty to guard against "the degradation and destruction of ecosystems and failure to protect the beauty and character of Namibia" Article 95 (I) deals with the "maintenance of ecosystems, essential ecological processes and biological diversity" and sustainable use of the country's natural resources. 	 Exploration activities to be conducted might negatively affect the environment if the proponent does not conduct the activities in a sustainable manner. It will therefore remain the responsibility of the proponent to implement all the stated measures and to abide to the legislation related to the project so as to safeguard the environment.
Environmental	Environmental Management Act 7 of 2007	 States that, projects with significant environmental impacts are subject to an environmental assessment process (Section 27). Requires for adequate public participation during the environmental assessment process for interested and affected parties to voice their opinions on a project (Section 2). 	 activities which require an EIA. As stated in the act, adverts should be published in two local newspapers twice. The public and relevant authorities should be consulted during the process of public participation as per the

EIA (2012)	Regulations	 Lists all activities, which cannot be undertaken without an EIA. 	_	This project is listed under mining and quarrying activities. Activity 3.3 states that resource extraction, manipulation, conservation and related activities require an EIA.
Convent Biologica (1992)		- Article 1 lists the conservation of biological diversity amongst the objectives of the convention.	-	The area under study is under conservancies hence the need for the proponent to carry out the project in a sustainable manner such that the biodiversity of the area is not disturbed.
		Chapter 6 provides for legislation regarding the protection of indigenous plants	-	The area of study has protected plants around hence the need of the proponent to protect the plants. Indigenous and protected plants should be incorporated within the development of the project.
Minerals (Prospec Mining) (Act 33 1	cting and	To provide for the reconnaissance, prospecting and mining for, and disposal of, and the exercise of control over, minerals in Namibia; and to provide for matters incidental thereto. "mineral" means any substance, whether in solid, liquid or gaseous form, occurring naturally in, on or under any land and having been formed by, or subjected to, a geological process, excluding-(c) subject to the provision of		The intended activity involves exploration of minerals mainly copper ore.

Soil	Soil Conservation Act 6 of 1969	subsection (2) , soil, sand, clay, gravel or stone (other than rock material specified in Part 2 of schedule 1) . This act covers the prevention and combating of soil erosion; the conservation, improvement and manner of use of the soil and vegetation; and the protection of water sources	 Limited trenching will leave earthed soils hence it should not be left un- rehabilitated.
Water	Water Act 54 of 1956	 Prohibits the pollution of underground and surface water bodies. 	 If drilling activities go below the level of the water table, they might be possibilities of pollution. Hence the pollution of water resources should be avoided during the exploration process.
Health and Safety	Labour Act (No 11 of 2007)	 This act emphasizes and regulates basic terms and conditions of employment, it guarantees prospective health, safety and welfare of employees and protects employees from unfair labour practices. 	 Work related hazards which include noise, dust, stress might be encountered by employees during the exploration phase. The proponent will therefore be obliged to create a safe working environment for the employees.
	Public Health and Environmental Act, 2015	 The act mainly emphasis on proper management of the environment, to prevent negative health impacts. The act promotes proper waste management. 	 Proper waste management should be promoted to prevent nuisance, which can consequently affect public health.

Heritage Act	– The Heritage Act of 2004 makes	- In an event that the proponent comes
	provision for the developer to identify	across any archaeological or historical
	and assess any archaeological and	sites of significance, they should report
	historical sites of significance. The	immediately to the Monuments Council
	existence of any such sites should be	
	reported to the Monuments Council as	
	soon as possible. The Council may serve	
	notice that prohibits any activities as	
	prescribed within a specified distance of	
	an identified heritage/archaeology site.	

4. ENVIRONMENTAL MANAGEMENT PLAN IMPLEMENTATION FRAMEWORK

4.1 ENVIRONMENTAL MANAGEMENT AND MONITORING PLAN ADMINISTRATION AND TRAINING

This Environmental Management Plan (EMP) shall clearly state the roles and responsibilities of all stakeholders to ensure that the EMP is fully implemented. The proponent shall appoint an overall responsible person (Environmental Control Officer) to ensure the successful implementation of the EMP. The Environmental Control Officer needs to have qualifications and knowledge in environmental management implementation.

4.2 ROLES AND RESPONSIBILITIES

Proponent (Kaoko Mining Namibia Pty Ltd): has the overall responsibility for all financial and work force provisions, which will facilitate the implementation of this EMP. The proponent is responsible for the appointment of other personnel responsible for the implementation of this EMP.

Competent and Monitoring authority (The Department of Environmental Affairs: Ministry of Environment and Tourism): Responsible for the review and approval of the EIA and EMP documents.

Project Manager - required in carrying out the overall responsibility for the implementation of the EMP to ensure that all required resources and mechanisms for environmental management are in place.

Health Safety and Environmental Site Officer (HSEO) - responsible of all environmental issues (waste management) and safety of employees. The HSEO should record and report all incidents on site.

Environmental Control Officer (ECO) - required to take independent responsibility of the implementation of this EMP. ECO is contracted to conduct periodic auditing of the sites, compilation of all reports to be submitted to MET: DEA for renewal of the environmental clearance certificate.

Employees - required to follow requirements as directed by the project manager. Report any potential environmental issues to the project manager or HSEO.

Contractors - all contractors (including subcontractors) and service providers are ultimately responsible for:

• Complying with the Environmental Management Plan specifications where applicable;

• Provide Environmental; Method Statements to the Project Manager with regards to how certain activities on-site will be conducted.

- Adhering to any environmental instructions issued by the Project Manager
- Arrange that all the contractor's employees receive training. Trainings have to be appropriate for the level of the tasks and functions undertaken.

The Environmental Method Statement referred to above will cover applicable details with regard to:

- Equipment to be used;
- Getting the equipment to and from site;
- How the equipment will be moved while on-site;
- How and where material will be stored;

• The containment (or action to be taken if containment is not possible) of leaks or spills of any liquid or material that may occur;

- Identified potential impacts of the activity and mitigation measures thereof;
- Compliance/non-compliance with the Environmental Specifications; and
- Any other information deemed necessary by the Project Manager.

5. ENVIRONMENTAL MANAGEMENT PLAN

The following tables form the core of this EMP for the exploration phase. The below information shown in the tables, should be used as a checklist on site.

5.1 MANAGEMENT OF NEGATIVE IMPACTS ASSOCIATED WITH EXPLORATION PHASE:

1. Impact on landscape

Impacts	Description	Mitigation	Project Phase	Responsibility
		Measures		
Landscape	Exploration activities such as limited trenching and drilling will disturb the original landscape. Rocks and top soil will be disturbed such that this will cause alteration of existing landscape. However, less harm is expected during the exploration phase given that trenching shall be limited and done at a small scale with the use of shovels and picks. No machinery shall be used during trenching and it shall only be used to understand the surface geology.	 Limited trenching should be done to understand the surface geology but when need arise to understand the subsurface geology, drilling should be used. Removed rocks and soil should be replaced back and levelling of the area done so as to try to restore the area to its natural state. 	Exploration Phase	Kaoko Mining Namibia Pty Ltd, Contractors, Project Manager and appointed Environmental Control Officer

2. Impact on fauna

Impacts	Description	Mitigation Measures	Project Phase	Responsibility
Fauna	Exploration activities such as walking, trenching and drilling might disturb animals. Noise generated from these activities might scare away animals. Poaching activities for meat can also be a cause of concern. Pits created might pose a hazard to both animals and people therefore the proponent should stick to limited trenching and use drilling for examination of subsurface geology.	 Maintain shallow trenches for surface geology exploration and drilling for subsurface geology examination Poaching of wildlife shall not be allowed. A drilling interval should be established, used and adhered to Working hours should be limited to minimum of 8 hours per day Noise should be addressed and mitigated at an early stage. Proper and timely maintenance of machineries and vehicles to prevent noise. Rehabilitate the area after the exploration activities. 	Exploration Phase	Kaoko Mining Namibia Pty Ltd, Contractors, Project Manager and appointed Environmental Control Officer

3. Dust

Impacts	Description	Mitigation	Project Phase	Responsibility
		Measures		
Dust	The following activities might cause accumulation of dust; trenching, movement of vehicles and machines. People at risk are likely to be employees working on the area. Accumulation of dust might lead to respiratory problems.	 executed and where dust is emitted People at site should be provided with respirators 	Exploration Phase	Kaoko Mining Namibia Pty Ltd, Contractors, Project Manager and appointed Environmental Control Officer

4. Generation of waste

Impacts	Description	Mitigation	Project Phase	Responsibility
		Measures		
Generation of waste	Waste might be generated from unearthed rocks and soil, oils, fuel, food leftovers, papers and plastics. It is definite that waste will be generated from unearthed rocks and soil but if mitigation measures are implemented such as making sure that after completion of exploration activities such as trenching, removed soil layers are replaced and levelling are done so that the original condition is restored, the impact will be of low environmental significance.	 Contaminated wastes in the form of soil, litter and other material must be disposed off at an appropriate disposal site. Strictly, no burning of waste on the site or at the disposal site is allowed as it possess environmental and public health impacts 		Kaoko Mining Namibia Pty Ltd, Project Manager, Contractors and ECO

5. Noise

Impacts	Description	Mitigation	Project Phase	Responsibility
		Measures		
Noise	Noise will be generated through: -Exploration drilling activities -Frequent movement of exploration vehicles Noise generated might disturb animals and result in some animals changing their habitant. If noise is generated, it might cause annoyance to passers-by.	 A drilling interval will be established, used and adhered to Working hours should be limited to minimum of 8 hours per day Noise should be addressed and mitigated at an early stage. Proper and timely maintenance of machineries and vehicles Employees to be equipped with ear protection equipment. 	Exploration Phase	Kaoko Mining Namibia Pty Ltd, Contractors, Site Manager & appointed ECO

6. Disturbance of vegetation

Impacts	Description	Mitigation	Project	Responsibility
		Measures	Phase	
Disturbance of vegetation	Vegetation loss might be experienced when creating the cutlines and vegetation might be disturbed during drilling and limited trenching. The severity of the impact is expected to be slight given that the proponent will use existing roads and in cases that the roads need improvement, they will be upgraded. No new roads will be established but cutlines might only be created for accessibility of exploration vehicles thus when there is need. The study areas do not have dense vegetation, the areas are rocky. Droughts over the years have also affected the density and growth of vegetation in the area. It is essential to note that, the EPLs are located within conservancies and within the EPLs there are protected plants.	 Maintain the stated boundaries, no activates shall be carried outside the demarcated boundaries All the major trees will be preserved and the activities will fit into the environment without affecting the trees. 	Exploration Phase	Kaoko Mining Namibia (Pty) Ltd, ECO

7. Impact on soil

Impacts	Description	Mitigation	Project	Responsibility
		Measures	Phase	
Soil	It is definite that soil shall be disturbed by exploration activities such as drilling and limited trenching. Soil might also be partly affected by oil or fuel leakages from vehicular and drilling machines.	 After completion of exploration activities such as trenching, removed soil layers must be replaced and levelling must be done so that the original condition is restored. Proper care should be taken so that there is no spill that would cause soil contamination If any hazardous waste is produced it should be properly handled and sent for disposal to appropriate disposal areas Fuels shall not be kept/stored at the site 	Exploration Phase	Kaoko Mining Namibia Pty Ltd, Contractors, Project Manager and appointed Environmental Control Officer

8. Impact on surface and groundwater

Impacts	Description	Mitigation	Project Phase	Responsibility
		Measures		
Surface and	Surface water bodies near the EPLs is	• Implement a maintenance programme	Exploration	Kaoko Mining
groundwater	an ephemeral river, Hoanib River	to ensure all vehicles, machinery and	Phase	Namibia Pty
contamination	which passes on the south boundary	equipment remain in proper working		Ltd,
	of EPL 7423. There will be no storage	condition		Contractors,
	of oils and fuel on site, however there	• Vehicle maintenance should be		appointed
	is risk of spillage of hydrocarbons	conducted in designated areas only,		HSEO
	from vehicles and drilling machine	preferably off-site.		
	which may result in environmental	• Waste oils and fuels from drip trays on		
	contamination.	stationery vehicles and machinery will		
		be disposed of as hazardous waste at a		
		licensed facility by a specialist		
		hazardous waste handler.		

5.2 MANAGEMENT OF SOCIO-ECONOMIC IMPACTS ASSOCIATED WITH EXPLORATION

1. Occupational Health and Safety

Description	Mitigation	Project Phase	Responsibility
	Measures		
Description Noise, dust and occupational stress are hazards, which are likely to be encountered during exploration phase.	Measures	-	Responsibility Kaoko Mining Namibia Pty Ltd, Contractors
	Noise, dust and occupational stress are hazards, which are likely to be	MeasuresNoise, dust and occupational stress are hazards, which are likely to be encountered during exploration phase.• Conduct Hazard identification and risk assessments• Comply with all Health and Safety standards specified in the Labour Act.• Provide all staff on site with protective equipment (helmets, gloves, respirators, work suits, earplugs, goggles and safety shoes where applicable).• Use of dust suppression measures• Reduce noise exposure by isolating noisy equipment and rotate tasks• Provision of First Aid at the site• Provisions of immediate accident/incident reporting and investigation.• Safety Posters and slogans should be	MeasuresMeasuresNoise, dust and occupational stress are hazards, which are likely to be encountered during exploration phase.• Conduct Hazard identification and risk assessmentsExploration Phase• Comply with all Health and Safety standards specified in the Labour Act.• Provide all staff on site with protective equipment (helmets, gloves, respirators, work suits, earplugs, goggles and safety shoes where applicable).• Use of dust suppression measures• Reduce noise exposure by isolating noisy equipment and rotate tasks• Provisions of immediate accident/incident reporting and investigation.• Safety Posters and slogans should be

2. Heritage impact

Impacts	Description	Mitigation	Project Phase	Responsibility
		Measures		
Heritage impact	At the sites, there are no known heritage areas or artefacts deemed to be impacted by the exploration activities. However, the proponent is required to consult with the headman of the area before any work is done so that if there are any areas which are holy or with graves, the proponent would be aware. In addition, if the proponent come across archaeological features or objects that possess cultural values (e.g. Pottery, bones, shells, ancient clothing or weapons, ancient cutlery, graves etc.), the area should be barricaded off and the relevant authorities should be contacted immediately.	 The Proponent should consult the headman of the area before conducting any work. The Proponent will need to monitor, by seeking consultation from an archaeological consultant during topsoil removal over relatively large areas so as to ensure the full recognition and recording of any buried finds or features. All works are to be immediately ceased should an archaeological or heritage resource be discovered. The National Heritage Council of Namibia (NHCN) should advise with regards to the removal, packaging and transfer of the potential resource. 	Exploration Phase	Kaoko Mining Namibia Pty Ltd, Contractors

3. Population Influx

Impacts	Description	Mitigation	Project Phase	Responsibility
		Measures		
Population	At the stage of exploration, few	 Local employment should be a 	Exploration Phase	Kaoko Mining
Influx	people will be employed hence the impact will be of low environmental significance.	priority so as to reduce the number of outsiders entering Opuwo area		Namibia Pty Ltd

4. Risk and spread of HIV/AIDS

Impacts	Description	Mitigation	Project Phase	Responsibility
		Measures		
HIV/AIDS	Even though a few employees will be employed during this phase but the virus might still spread. The fact that people will be coming from different locations and meeting at one place can result in anti-social behaviours like prostitution hence the spread of HIV/AIDS.		Exploration Phase	Kaoko Mining Namibia (Pty) Ltd,

5. Cumulative impacts

Impacts	Description	Mitigation	Project Phase	Responsibility
Cumulative impacts	Alternation of existing landscape caused by limited trenching and drilling might impact on unknown archaeological heritage and also result in loss of habitancy for some animals which can further affect the food web. The greatest potential impact of the proposed development on the archaeological heritage of the surrounding landscape will be during the removal of topsoil during limited trenching and drilling on identified areas of interest with possible mineral deposits. The proposed works will have a negative archaeological impact on undisturbed areas of ground where topsoil will be removed.	 Measures Limited trenching should be done to understand the surface geology but when need arise to understand the subsurface geology, drilling should be used. The Proponent will need to monitor, by seeking consultation from an archaeological consultant during topsoil removal over relatively large areas so as to ensure the full recognition and recording of any buried finds or features. Removed rocks and soil should be replaced back and levelling of the area to its natural state. 	Exploration Phase	Kaoko Mining Namibia (Pty) Ltd

5.3 POSITIVE IMPACTS ASSOCIATED WITH THE PROJECT

1. Local empowerment

Impacts	Description	Enhancement Required	Project Phase	Responsibility
Local empowerment	The shareholders of Kaoko Mining Namibia (Pty) Ltd are all Namibian citizens who managed to group their licenses together in a bid to explore for the possible discovery of a medium to large minable copper deposit.	Continue to promote locals	Exploration Phase	Kaoko Mining Namibia (Pty) Ltd

2. Employment creation

Impacts	Description	Enhancement Required	Project Phase	Responsibility
Employment creation	It is definite that jobs will be created during the exploration phase. The type of jobs will range from skilled, semi-skilled and unskilled and locals will definitely be recruited when manual labour is required.	 Employ locals in all casual labour and ensure gender equality. Equity, transparency, to be put into account when hiring and recruiting 	Exploration Phase	Kaoko Mining Namibia Pty Ltd

3. Land utilisation for the benefit of people

Impacts	Description	Enhancement Required	Project Phase	Responsibility
Land utilisation for the benefit of people	shareholders ala not nave lands to start	in future	Exploration	Kaoko Mining Namibia Pty Ltd

4. Generation of Revenue

Impacts	Description	Enhancement Required	Project Phase	Responsibility
Generation of	Kaoko Mining Namibia Pty Ltd will pay tax	• The contractors will pay taxes as	Exploration	Kaoko Mining
Revenue	hence generating revenue. More taxes will also be generated through contracted and subcontracted companies.	stipulated by the law of Namibia.	Phase	Namibia (Pty) Ltd, appointed contractors

5.4 MANAGEMENT OF IMPACTS AT POST-EXPLORATION PHASE

Impact on landscape

Impacts	Description	Mitigation	Project Phase	Responsibility
		Measures		
Post-	The stage of exploration is expected to have	• All pits shall be backfilled or	Post-exploration	Kaoko Mining
exploration	minimum damage to the environment as	contoured to a stable angle of	Phase	Namibia (Pty) Ltd
stage	compared to mining. However, the major	repose.		
(Landscape)	issue which need to be looked after the	• Stockpile disturbed bedrock on		
	phase of exploration is how the project has	site in a safe and stable manner.		
	impacted the landscape. Exploration			
	activities like limited trenching will leave			
	pits although they are expected to be			
	shallow. Pits created during limited			
	trenching need to be rehabilitated.			

6. ENVIRONMENTAL MONITORING

Monitoring will be required to ensure compliance with the EMP. It will be the responsibility of the Environmental Control Officer to ensure compliance with the EMP, and carry out monitoring/auditing activities. The Environmental Control Officer must have the appropriate experience and qualifications to undertake the necessary tasks. The Environmental Control Officer will report to the proponent should any non-compliance be evident or corrective action necessary. The suggested monitoring details are outlined in table 3 below.

ΙΜΡΑCΤ	RECEPTORS	TYPE OF MONITORING	PERIOD/TIME
Alternation of existing landscape	Environment	Inspection	Period of limited trenching and drilling
Dust	Employees	Regular site inspections	Daily
Impact on fauna	Environment	Inspection	Period of trenching and drilling
Pollution	Environment	 Tests on the nearby surface water body and boreholes 	Once in a year
Noise	Employees Surrounding areas	Noise monitoring	Daily
Vegetation loss	Environment	 Inspection of protected plant species and incorporate them into the development 	 Period of limited trenching, drilling and creating cutlines.
Heritage	Environment	Inspection	Period of exploration
O.H. S	Employees	 Site inspection Conducting Hazard and Risk Assessments Health and safety incident monitoring 	• Daily
Impact on soil	Environment.	Monitoring moisture content & texture of soil	Quarterly
Generation of waste (solid)	Land	Site inspection on housekeeping	Daily
HIV/AIDS	Employees	 Regular collection of waste Free testing	WeeklyAnnually

Table 3: Monitoring of identified impacts

7. CONCLUSIONS

The proponent will be responsible to oversee that the EMP is implemented and made binding to the contractor by including the EMP in the contract documentation. The above Environmental Management Plan, if properly implemented, will help to minimise adverse impacts on the environment. Where impacts occur, immediate action must be taken to reduce the escalation of effects associated with these impacts.

The Environmental Management Plan should be used as an on-site reference document during the proposed development and auditing should take place in order to determine compliance with the EMP for the proposed sites. Parties responsible for transgression of the EMP should be held responsible for any rehabilitation that may need to be undertaken.

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