6.4 ENVIRONMENTAL IMPACTS MITIGATION – MANAGEMENT PLAN OVERALL OBJECTIVES OF THE EMP

The following overall environmental objectives have been set for the Kilembe Mines Mining (Pty) Ltd exploration and mining development project:

- To comply with national legislation and standards for the protection of the environment.
- To limit potential impacts on biodiversity through the minimization of the footprint (as far as practically possible) and the conservation of residual habitat within the mine area.
- To keep surrounding communities informed of farming activities through the implementation of forums for communication and constructive dialogue.
- To develop, implement and manage monitoring systems to ensure good environmental performance in respect of the following: ground and surface water, air quality, noise and vibration, biodiversity and rehabilitation.

6.4.1 KEEPING EMPS UP TO DATE

This Environmental Management Plan (EMP) document is designed to meet legal requirements and avoid or minimize the impacts associated with the implementation of Kilembe Mines Mining (Pty) Ltd exploration and mining development. It is the intention that this EMP should be seen as a "living document" which will be amended during the operation, as the activities might change or new ones be introduced.

Should a listed activity(s) as defined in the Environmental Impact Assessment Regulations: Environmental Management Act, 2007 (Government Gazette No. 4878) be triggered (as a result of future modifications/changes at the mine), this EMP will be updated as a result of another EIA process as stipulated in the regulations.

6.4.2 IMPACTS MANAGEMENT / MITIGATION MEASURES

Table 11. Impact on the Biophysical Environment – EPL site Access and use of vehicles

Issue	Management commitment	Phase
Understanding who the stakeholders are	 Maintain and update the stakeholder register, including stakeholders' needs and expectations. A representative database would include all relevant local government, service providers, indigenous populations, Traditional Authorities (TAs), NGOs or community-based organizations Ensure that marginalized and vulnerable groups are also considered in the stakeholder communication process. Record partnerships as well as their roles, responsibilities, capacity and contribution to development. 	All
Liaising with interested and	Devise and implement a stakeholder communication and	
affected parties at all	engagement strategy.	All
phases in the mine life		
Responsibility	Kilembe Mines Mining (Pty) Ltd and Moring Enviro Consultants (On contrac	t basis)

Table 12. Impact on the Biophysical Environment – EPL site Access and use of vehicles

Impact Event	Disturbances on Biodiversity in respect to access tracks	
Desired mitigation outcome	The objective of the mitigation in respect to impacts on biodiversity is to that as much as possible, disturbance on biodiversity is avoided and pre while the proposed prospecting activities is undertaken.	
Proposed Mitigation Measures	 Strict compliance with the Park Management guidelines and EMP is recommended in respect to managing incidental events; Exploration activity must be limited to the pre-identified pegmatites belts within the EPL area Unless necessary and agreed with the park management, no new access tracks shall be created and no lodging shall be allowed in sensitive zones 	All
Responsibility	Kilembe Mines Mining (Pty) Ltd and Moring Enviro Consultants (On contract	ct basis)

Table 13. Impact on the Biophysical Environment – Bulk sampling and ore extraction

Table 13. Impact on the Biophysical Environment – Bulk sampling and ore extraction		
Impact Event	Disturbances on Biodiversity in respect to sampling and trenching activities	
Desired mitigation outcome	The objective of the mitigation in respect to impacts on biodiversity is to ensur that as much as possible, disturbance particularly on wildlife (poaching) an flora (clearing / damage) species is reduced and or prevented. • Strict compliance with the Forestry Act and Regulations in respect to	
Proposed Mitigation Measures	 vegetation clearing, Park Management guidelines and EMP is recommended in respect to managing incidental events; Should the proponent require clearing, removal and transplantation of any protected plant species – services of an appropriately qualified botanist / ecologists must be sought and relevant permissions obtained prior to any such activity being undertaken A plant survey must be conducted and all protected species clearly marked and protected prior to setting-up any sampling site and or digging any trench for geological sampling Exploration activity must be limited to the pre-identified pegmatites belts within the EPL area thus Unless necessary and agreed with the park management, no new access tracks shall be created and no lodging shall be allowed in sensitive zones Temporary bins and spill kits must be provided to ensure that all waste material including hydrocarbons are well contained prior to final disposal at approved sites in either Opuwo or applicable town Unless in an emergency, no equipment (vehicles and drill rigs) should be serviced in the field thus preventing unnecessary spillage of hydrocarbons reducing the spatial impacts to key areas of the EPL 	
Responsibility	Kilembe Mines Mining (Pty) Ltd and Moring Enviro Consultants (On contract b	asis)

6.4.3 IMPACTS ON THE SOCIO-ECONOMIC ENVIRONMENT

Table 14. Impact on the Biophysical Environment – Waste Management (Effluent, Solid and Hydrocarbons)

Impact Event	Waste generation and disposal	Phase
Desired mitigation outcome	The objective of the mitigation in respect to waste generation is to ensuthe best scenic value and integrity of the affected environment maintain or enhanced by reducing chances of littering through proper use of management facilities.	ed and
Proposed Mitigation Measures	 Environmental awareness is an important aspect of environmental management, therefore all project staff and service providers must be educated of the environmental compliance requirements and urged to comply accordingly on induction with the project site. Given that lodging is recommended to be at existing camp-sites and or lodges, this aspect shall be managed as part of the current property owners compliance requirements In the field, hydrocarbon waste shall be contained (in spill kits) and stored in appropriate heavy-duty plastic cabbage, transported to the nearest waste-oil recycling / solid waste disposal facility in Opuwo or applicable town A sufficient number of spill kits shall be acquired and strategically placed, particularly near every sampling site to ensure that timely response to any potential fuel and lubricant spills is conducted (should the project require any sampling activities to be undertaken). These shall include an on-site used oil disposal bin(s) Equally, effluent waste shall be managed in compliance with the lodging host's requirements, although during any sampling activities – temporary dry-pit toilet facility must be provided at every site. 	•
Responsibility	Kilembe Mines Mining (Pty) Ltd and Moring Enviro Consultants (On contrac	t basis)

Table 15. Environmental Impact: Human Health and Safety

rable 15. Environmental impact: numan nearth and Safety		
Impact Event	Prevention and mitigation of any health and safety hazards / risks	Phase
Desired mitigation outcome	The objective of the mitigation in respect to health and safety hazarensure that the health, safety and protection of both the project sommunity receive priority in terms of budgetary provision and compliant	taff and
Proposed Mitigation Measures	 Strict compliance with the EMP is recommended in respect to managing incidental events; Carry sufficient First Aid equipment to ensure that minor injuries reduces need to access local health facility and therefore minimizing potential strain on local services Strict compliance with national health protocols as and when directive are issued in respect to any disease outbreak and or recurring pandemics such as HIV / AIDS and Pandemic Outbreak Strict ban on use of any toxic substances within and during the working environment must be prohibited 	All
Responsibility	Kilembe Mines Mining (Pty) Ltd and Moring Enviro Consultants (On contra	ct basis)

 Table 16: Impact on the Social Environment – Air and Noise Pollution

Impact Event	Disturbances to the social environment	Phase
Desired mitigation outcome	The objective of the mitigation in respect to ambient air quality and sense / noise and chance is to ensure that all possible receptors are ident practical measures are put in place to reduce these impacts and or resp appropriate mitigation to complaints	ified and
Proposed Mitigation Measures	 Strict compliance with the EMP is recommended in respect to managing incidental events; Noise complaint register must be kept and maintained regularly with mitigation measures adopted accordingly. All excessive noise generating activities must be strictly carried out during the day between 08hoo (am) and 17hoo (pm) week days only. Conditions of the Environmental Clearance Certificate and Surfaceuse Agreement (with the relevant Traditional Authority and Town) must be accordingly adhere to. As much as possible, it is recommended that vehicles with the most minimum footprint are used such as smallest excavator and or portable drill rig (drawn on a trailer). 	
Responsibility	Kilembe Mines Mining (Pty) Ltd and Moring Enviro Consultants (On contr	act basis)

Table 16: Impact on the Social Environment – Culture, Heritage and Scenic values

Table 16: Impact on the Social Environment – Culture, Hentage and Scenic values			
Impact Event	Disturbances to the heritage and scenic value of the environment	Phase	
Desired mitigation outcome	The objective of the mitigation in respect to impacts on culture archaeological heritage integrity is to ensure that at all times, project vigilant of the potential to intrude, disturb and or damage important artitutherefore must avoid wondering onto any protected and or sensitive kidentified site.	staff are facts and	
Proposed Mitigation Measures	 Strict compliance with the EMP is recommended in respect to managing incidental events Contractors working on the site should be made aware that under the National Heritage Act, 2004 (Act No. 27 of 2004) any items protected under the definition of heritage found in the course of development should be reported to the National Heritage Council The chance finds procedure as outlined in the EMP must be implemented at all times, and. Detailed field survey should be carried out if suspected archaeological resources or major natural cavities / shelters have been unearthed during the proposed exploration and test mining operations. 		
Responsibility	Kilembe Mines Mining (Pty) Ltd and Moring Enviro Consultants (On contract	ct basis)	

Table 17: Impact on the Economic Aspect

Impact Event	Disturbances on social and economic aspects	Phase
Desired mitigation outcome	The objective of the mitigation in respect to economic impacts relating proposed activity, is to ensure that potential negative economic impacts and existing land-use are prevented, reduced and or mitigated and the ones enhanced.	s on other
Proposed Mitigation Measures	 It is critical that timely and continuous communication and dissemination of information with the local community is ensured to alleviate potential sense of social marginalization, drive gender equality and enhance the understanding and perception of the benefits associated with Kilembe Mines Mining (Pty) Ltd 's activities To enhance the positive impacts relating to marginal net benefits for the micro-economy (local residence of Opuwo or applicable town Settlement and the region at large) and national economy at larger, legislative provisions to Affirmative Action and Labour Welfare must be observed It is strictly recommended that Kilembe Mines Mining (Pty) Ltd negotiates and signs a Surface Use Agreement detailing aspects of conduct and benefit distribution with all key stakeholder i.e. Traditional Authority, Park and other Operators or support institutions e.g. NGOs / CSOs) 	All
Responsibility	Kilembe Mines Mining (Pty) Ltd and Moring Enviro Consultants (On contra	act basis)

Table 18: Site Closure and Rehabilitation

Table 16: Site Closure and Nethabilitation			
Impact Event	Disturbances on social and economic aspects	Phase	
Desired mitigation outcome	The Proponent will commit to establishing a rehabilitation plan as part of the mine closure plan. A conceptual mine closure plan with costing is under development must be compiled by InterContinental Mining in association with Enviro-Leap and forms part of the environmental compliance and monitoring programme.		
Proposed Mitigation Measures	 Kilembe Mines Mining (Pty) Ltd shall submit regular (bi-annual or annual Environmental Reports) to the relevant Ministry stating the exploration activities and environmental performance of the project. Staff of the MET or Ministry of Mines and Energy may at any time inspect the exploration area. Internal and external monitoring should involve InterContinental Mining's safety and environmental officer and members of the MEFT. Should the decision be taken that the project is not economically viable the area will be rehabilitated. The rehabilitation measures that are set out in the Rehabilitation Plan (to be compiled and approved by MEFT) are binding to all personnel on site including the crew and contractors. 	Closure	
Responsibility	Kilembe Mines Mining (Pty) Ltd and Moring Enviro Consultants (On contr	ract basis)	

Table 19: Actions relating to stakeholder communication

Issue	Management commitment	Phase
	On obtaining the Environmental Clearance Certificate and	
Development and	other relevant authorization it is recommended that the	
maintenance of a	proponent undertakes a stakeholder engagement	
Stakeholder engagement	process to develop a Communication and Monitoring	
plan	Plan for continuous reporting and feedback	All
	Maintain and update the stakeholder register, including	
	stakeholders' needs and expectations. Ensure that all relevant	
	stakeholder groups are included building on pre-identified and	
	registered I&APs.	All
	A representative database would include all relevant local	
Understanding who the	government, service providers and contractors, indigenous	
stakeholders are	populations, local communities, Traditional Authorities (TAs),	
	NGOs, shareholders, the investment sector, community-based	
	organizations, suppliers and the media.	All
	Ensure that marginalized and vulnerable groups are also	
	considered in the stakeholder communication process.	All
	Record partnerships as well as their roles, responsibilities,	
	capacity and contribution to development.	All
Liaising with interested and	Devise and implement a stakeholder communication and	
affected parties at all	engagement strategy.	All
phases in the mine life		
Responsibility	Kilembe Mines Mining (Pty) Ltd and Moring Enviro Consultants (On-co	ontract)

A stakeholder engagement plan is an important tool in ensuring that a good working relationship is maintained between the proponent and the community within which the activities are undertaken. It is crucial that this plan is developed in the same transparent manner and approach as the environmental assessment, and that it remains a living document which allows the stakeholder to engage with throughout the duration of the proposed activity.

Equally, it must be at all time readily available on request to all interested and affected parties for review and must provide clear procedures for how and where it can be accessed.

7 KEY ASSUMPTIONS, UNCERTAINTIES AND LIMITATIONS

Assumptions, uncertainties and limitations have been discussed throughout the EIA report and in the various specialist studies. The more significant of these included

The EIA focused on third parties only and did not assess health and safety impacts on workers because the assumption was made that these aspects are separately regulated by health and safety legislation, policies and standards, and that Mendi-RRS Joint Venture will adhere to these.

8 ENVIRONMENTAL IMPACT STATEMENT & CONCLUSION

While the proposed exploration activities stimulate economic development and diversification in order to further create employment opportunities and thus trickling benefits to the larger Namibian population, it also create opportunity for unprecedented negative impacts.