



ESIA Preliminary Report for Kamativi Mining Company

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1.0 Introduction

This report serves as a preimplantation Environmental and Social Impact Assessment (ESIA) report for the Kamativi Lithium-Based Minerals Exploration, Mining and Processing Ore Mine Project, prepared in accordance with the Environmental Management Act [Chapter 20:27] and its associated regulations. It integrates data that shall be verified from the *KMC ESIA Addendum Report (2025)* and the *Feasibility Study of Zimbabwe KMC Kamativi Lithium Polymetallic Ore Mine Project (2024)*.

2.0 General Description of the Proposed Project

2.1 Project Title: Kamativi Lithium-Based Minerals Exploration, Mining and Processing

2.2 Proponent:

Kamativi Mining Company (Pvt) Ltd
No. 45 Orange Grove, Highlands, Harare
Contact Person:

Mr Jianguo Ye
Tel: +263 775 827 384

Mr Liang (Liaison for ESIA)
Tel: +263 775 827 384

2.3 Project Location:

The mine shall be situated in Ward 11, Hwange District, Matabeleland North Province, approximately 29 km east of Cross Dete.

The water supply infrastructure shall include the Gwayi River catchment, the existing Kamativi Dam and the proposed downstream supplementary reservoir that will be constructed by Kamativi Mining Company as the main abstraction points.

2.4 Nature and Duration of the Project:

The project comprises of:

2.4.1 Exploration

Exploration of spodumene-bearing pegmatites.

2.4.2 Open-pit mining

Open-pit mining of spodumene-bearing pegmatites.

2.4.3 Ore processing

Ore processing through crushing, flotation, magnetic separation and tailings handling.

2.4.4 Water abstraction

Water abstraction through floating-pump intake to ensure year-round water supply.

2.4.5 Support infrastructure

Support infrastructure: access roads, workshops, reagent storage, and administrative facilities.

2.5 Project life

The project is set to run for a period of about 20 years, implemented in two production phases (0.6 Mt → 2.0 Mt ore p.a.).

2.6 Water Supply Design Summary:

According to a feasibility study that was done by China Nerin:

- **Plant water demand:** ≈ 42 915 m³/day.
- **Recycling rate:** 93 %.
- **Make-up water intake:** 7 200 m³/day from Kamativi Reservoir and the new 1# supplementary dam.
- **Alternative source:** Gwayi River (2# make-up water) via DN300 HDPE pipeline ≈ 2 km long.
- **Intake system:** floating platform pumps (Q = 150 m³/h, H = 110 m, N = 110 kW) with integrated water-treatment plant (capacity 7 200 m³/day).

3.0 Preliminary Identification of Potential Environmental and Social Impacts and Mitigation.

Impact Area	Potential Impact	Preliminary Mitigation / Management Action
Water resources	Alteration of surface-water regime; contamination by process effluent	Construction of a lined tailings ponds with return-water system; treat raw and process water using integrated clarifiers for reused in production and prevent any flow of tailings effluent to the environment or water bodies.
Hydrology / Siltation	Increased sediment load during construction of	Install silt traps and gabion retaining walls; progressive

	and water abstraction.	rehabilitation of disturbed areas
Groundwater quality	Seepage from TSF or fuel storage	Line TSF with HDPE geomembrane; monitor groundwater quarterly.
Air quality and noise	Dust and blasting vibration	Water spraying, restricted blasting times, PPE and community warning systems.
Biodiversity	Loss of vegetation and aquatic disturbance	Mark and avoid key habitats; re-vegetate buffer zones with indigenous species.
Waste management	Hazardous and domestic waste generation	Segregation at source; disposal through licensed facilities in accordance to SI 6 of 2007.
Occupational health & safety	Accidents, exposure to dust or chemicals	Implement SHE plan; provide PPE; regular training and medical surveillance
Socio-economic	Resettlement concerns, employment pressure	Develop local hiring policy; community benefit schemes and CSR programmes (boreholes, school water supply, clinic support)
Cultural heritage	Disturbance to heritage sites	Apply chance to find procedure; consult National Museums and Monuments Zimbabwe
Cumulative effects	Water abstraction and tailings discharge	Maintain adaptive monitoring linked to ZINWA permits

4.0 Description of the ESIA Process, Timeline, and Stakeholder Participation

4.1 ESIA Process Steps

4.1.1 Screening and Scoping

Determination of ESIA level and Terms of Reference approved by EMA.

4.1.2 Baseline Data Collection

Biophysical, hydrological, and socio-economic surveys in wet and dry seasons.

4.1.3 Impact Identification and Significance Analysis

Using matrices and checklists (per Statutory Instrument 7 of 2007).

4.1.4 Public and Stakeholder Consultation

Meetings with Hwange Rural District Council, ZINWA, EMA, local communities, and traditional leaders.

4.1.5 Draft ESIA Preparation

Integration of feasibility study results and mitigation measures.

4.1.6 Submission to Environmental Management Agency (EMA) for Review and Licensing.

4.1.7 Implementation and Monitoring

Environmental Management Plan, execution, periodic audits and reporting.

4.2 Indicative Timeline

Activity	Estimated Duration	Period
Scoping & TOR approval	3 weeks	Jan 2025
Baseline studies and fieldwork	6 weeks	Feb–Mar 2025
Stakeholder consultations	4 weeks	Mar–Apr 2025
Draft ESIA compilation	4 weeks	May 2025
EMA review & decision	6 weeks	Jun–Jul 2025
Implementation of EMP and monitoring	Continuous	From Aug 2025

4.3 Stakeholder Participation Opportunities

- **Public notices** in national newspapers and local boards.
- **Consultation meetings** at Kamativi, Cross Dete and Hwange RDC offices.
- **Focus-group discussions** with residents, school and clinic representatives.
- **Feedback channels** via email (liangdexi321@gmail.com) and phone (+263 775 827 384).
- **Disclosure of draft ESIA** for a 21-day public review period prior to submission.

5.0 Contact Details for ESIA Management

Role / Responsibility	Name / Organization	Contact Information
Project Proponent	Kamativi Mining Company (Pvt) Ltd	No. 45 Orange Grove, Highlands, Harare
Managing Director / Authorized Signatory	Mr Jianguo Ye	Tel +263 775 827 384
Environmental Manager (ESIA Coordinator)	Mr Liang	Email liangdexi321@gmail.com

		Tel +263 775 827 384
Environmental Consultant	Geovannah Consultancy (Pvt) Ltd – Lead Consultant Mr Albert Jaya (Environmentalist)	Harare Office; Responsible for ESIA preparation and liaison with EMA
Regulatory Authority	Environmental Management Agency (EMA) – Head Office Harare	Oversight and certification

6.0 Conclusion

The proposed Kamativi Mining Company project has manageable environmental and technical aspects. The forthcoming ESIA will quantify and verify the impacts identified herein with mitigation aligned to the Environmental Management Act [Chapter 20:27], SI 7 of 2007 and international best practice.