

TITANIUM BENEFICIATION

Project

Extract and beneficiate titanium-bearing ore

Project Concept

- ▶ Over the past four decades, various mineral investigations and sampling analyses have been undertaken to determine the economic potential and exploitability of the Mambula titanium deposit located in the Maphumulo Local Municipality, KwaZulu-Natal
- ▶ Enterprise iLembe, together with Trade & Investment KwaZulu-Natal (TIKZN), approached mineralogical research organisation Mintek to assist in providing a conclusive opinion on the overall economic potential of the deposit. The scope of work comprised

- three elements: conducting a geological and beneficiation assessment of the Mambula Complex with reference to previous studies, undertaking a fieldwork/site assessment to obtain samples for chemical assay and mineralogical analysis and formulating a viability assessment and providing high-level recommendations on how to proceed
- ▶ Initial laboratory test work confirmed the possibility of ilmenite production, however, further investigation is required to determine the feasibility of beneficiating the ores given the serious constraints implicit in the deposit's location and the local municipality's infrastructural limitations



- ▶ Given the socio-economic relevance of the establishment of a mineral operation engaged in extracting and processing the Mambula ores to the Maphumulo Municipality, it is proposed that a more detailed economic and social impact assessment be conducted in the short-term

Business Plan

The business plan needs to be completed

Required Investment

ZAR 350 million

Location

- ▶ Kranskop, KwaZulu-Natal

Current Status

The project remains at the conceptual stage

Feasibility Study

- ▶ A pre-feasibility study carried out by Mintek indicates potential of mineral availability. The mapping exercise is required hence the need for a potential investor



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