

Proudly Sponsored by



Main Advertisers

## KANGANKUNDE RANKED AMONG WORLD'S LARGEST

- MRE pegs rare earths resource at 261-million tonnes
- Mining Minister impressed with Lindian work progress



Chang'anamuno listening attentively as Ngwena takes her through the project

By Bester KAYAYE and Wahard BETHA

The Kangankunde Rare Earths Project in Malawi's Balaka District has captured the limelight as ASX-listed Lindian Resources has announced a Maiden Resource Estimate (MRE) for the project which pegs the rare earth resource at 261-million tonnes averaging 2.19% Total Rare Earth Ore (TREO) above a 0.5% TREO cut-off grade.

The MRE places Kangankunde amongst the world's largest rare earths deposits and as such is a globally strategic resource for long term security of rare earths supply.

Meanwhile, Minister of Mining Honourable Monica Chang'anamuno MP has hailed Lindian for tremendous progress in its mine development studies since it took over Kangankunde in a purchase

deal from Rift Valley Resource Developments.

Chang'anamuno said: "Let me say that I am much impressed with what Lindian is doing here and with the plans they have that next year they want the actual mining to start."

"I think Lindian is not in the group of many other companies that keep on renewing their exploration licenses again and again to the extent that we even wonder if they will do the actual mining."

"With Lindian it means the country will start benefiting from the project soon in line with the country's 2063 Vision and the 10-year implementation plan."

Rare earths have a growing market demand on the global commodity market as they are used in the production of strong magnets for production of electric vehicles and wind turbines.

(Read our exclusive articles on Kangankunde Project on Pages 6 and 7)

## INSIDE



Lotus finalising Kayelekera MDA negotiations with Government

Page 3



Global mining giant Rio Tinto to partner Sovereign Metals in Kasiya Rutile Project

Page 8



Application of Digital Technologies for Safe Mining

Page 9

# Equipment and Parts Suppliers Ltd

Industrial Mining, Construction Equipment & Spare Parts Distributors  
Also Specialized in Irrigation and Industrial Diesel Engines

**OFFICIAL DISTRIBUTORS**



P. O. BOX 553, LILONGWE, MALAWI. TEL: +265 1 753 806 / +265 1 753 867  
E-MAIL: tcbsales@globemax4g.com / trucks@globemw.net WEBSITE: www.trucksandcar.com

## MINING

# Kangankunde Rare Earths Project impresses Malawi Mining Minister



Hon. Chang'anamuno accompanied by officials from the Ministry of Mining, Balaka District Council officials and Traditional leaders took their time appreciating Lindian's work



By Wahard BETHA

Malawi's Minister of Mining Honourable Monica Chang'anamuno MP has expressed satisfaction over the progress that ASX-listed Lindian Resources is making towards starting mine construction at its Kangankunde Rare Earth Project in Balaka.

Chang'anamuno made the remarks after touring the project to appreciate strides in the mine development studies that Lindian has made since it started pursuing the project, 11 months ago.

She said Malawi needs investors like Lindian, who have the capacity to do more work within a short period of time, so that the country starts benefitting from large scale mining projects as soon as possible.

Chang'anamuno said: "Let me say that I am much impressed with what Lindian is doing here and with the plans they have that next year they want mine construction to start."

"I think Lindian is not in the group of many other companies that keep on renewing their licenses again and again to the extent that we even wonder if they will do the actual mining."

"With Lindian it means the country will start benefiting from the project soon in line with the country's 2063 Vision and the 10-year implementation plan."

In his address, Country Director for Lindian Resources Chispine Ngwenya thanked the Minister for the visit saying it signifies government's interest in the mining sector as well as support towards the project.

Ngwenya also said the Minister has toured the site at an opportune time when the company has just produced its Mineral Resource Estimate ('MRE') of August 2023 which places Kangankunde amongst the world's largest rare earths deposits and positions it as a globally strategic resource for secure, long-term supply.

He said: "We are very delighted that you came and appreciated our work and we do not take it for granted because it is like you have given us an extra gear to speed up the process."

"Honorable Minister, we can assure you that the results we are getting here are very convincing and show that the life of the mine can be above 50-years."

Member of Parliament for Balaka West Constituency, which hosts the mining tenement, Bertha Ndebele also hailed Lindian for the good relationship that the company has with the community.

Ndebele said unlike other companies that held the tenement before, Lindian has already shown interest to develop and support people of the area.

She disclosed that Lindian has started construction works of a police unit in the area as part of Corporate Social Responsibility.



Samples of non-radioactive ore collected at Kangankunde



## Geology

The Kangankunde Hill rises to a height of up to 200 m above the surrounding plain. The deposit contains a central zone of carbonatite rocks passing outwards to a series of zones of altered breccias of varying composition of carbonatite and wall rock clasts in a carbonatite matrix, and ultimately into unaltered gneiss host rock. Similar to many rare earth deposits, the main rare earth containing mineral in the deposit is monazite.

## Drilling Techniques and Hole Spacing Drilling

Drilling work completed at the Kangankunde Rare Earths Project and used to support the MRE includes eight diamond core (DD) holes, 76 reverse circulation (RC) holes, and 7 RC holes with diamond core tails (RCD) for a total of 15,831 m.

All holes are drilled from surface with various orientations depending on terrain constraints. RC drilling utilised a 5.25" (134 mm) face sampling hammer to generate one-metre samples, which are placed into large plastic bags marked with the hole ID and sample interval. Sample weights are recorded for each sample, with recovery maximised through use of Polyvinyl Chloride (PVC) collars in upper portions of the collar. Diamond drilling used a HQ triple tube size (~61.1 mm diameter) with the triple tube techniques used to maximise core recovery. NQ core was used for deeper drill holes. Drill core was collected from a core barrel and placed in appropriately marked core trays. Down hole core run depths were measured and marked with core blocks. Core was measured for core loss and core photography and geological logging completed

## Mining and Metallurgy

Development of this Mineral Resource assumes mining using standard equipment and methods. The assumed mining method is open pit mining at an appropriate bench height with conventional drill and blast with excavator and truck configuration for load and haul.

Lindian Resources has completed initial metallurgy test work that resulted in the qualification of a water-based gravity separation process and resulted in a recovery of 70% at a concentrate grade of 60% TREO. These results together with indicative mining and processing costs and other cost inputs are considered adequate to achieve reasonable expectations of economic metallurgical processing of the project mineralisation

Lindian Resources Limited is the holder of Malawian registered Rift Valley Resource Developments Limited and its 100% owned title to Exploration Licence EPL0514/18R and Mining Licence MML0290/22 issued under the Malawi Mines and Minerals Act 2019. The Exploration and Mining Licences have an Environmental and Social Impact Assessment Licence No.2:10:16 issued under the Malawi Environmental Management Act No. 19 of 2017.

# Kangankunde mineral resource estimate pegged at 261m tonnes

By Bester KAYAYE

**A**SX-listed Lindian Resources says its ongoing mine development studies have pegged the mineral resource estimate for the Kangankunde tenement in Balaka at 261 million tonnes of high grade 2.19% Total Rare Earth Oxides (TREO).

The company has announced the development in its maiden Mineral Resource Estimate ('MRE') positioning Kangankunde amongst the world's largest rare earths deposits and as a globally strategic resource for secure, long-term supply of REEs.

Lindian says the resource is entirely inferred status, and has been estimated in accordance with JORC 2012 guidelines.

The resource estimation utilised multi-element relationships from rock chemistry and rare earth mineralisation to define five domains within the overall carbonatite. These domains were assessed against geological understanding and field observations from surface mapping and drill core and were considered appropriate representations of the mineralisation distribution.

The MRE includes 5.7 million tonnes contained rare earths of which 1.2 million tonnes of the contained rare earths are critical metal elements neodymium-praseodymium (NdPr), the NdPr ratio averages 20.2% of TREO and Non-radioactive mineralization.

Lindian's Executive Chairman Asimwe Kabunga expressed excitement over the development saying the report positions the project as one of the focal points for parties seeking secure, long term supply of REEs.

Kabunga emphasized that they are currently working on signing offtake agreements with several interested parties to advance construction of the stage 1 plant to commence initial production in 2024.

He said: "Our maiden Mineral Resource Estimate marks a key milestone for Lindian and positions us as a major player in the global rare earths sector. We can confidently claim that Kangankunde is one of the world's largest rare earths projects superior in terms of tonnage matched with excellent grade and containing a high percentage of critical metal elements neodymium-praseodymium (NdPr), and uniquely, material that is non-radioactive."

"This makes the project highly attractive to parties seeking secure, long term supply, many of which have expressed an interest in Kangankunde's material. Our focus now turns to locking in these offtake agreements and advancing construction of our stage 1 plant to deliver first product in 2024."

Lindian's CEO, Alistair Stephens added: "In a little over 10 months, and based on just 14,000 metres of drilling, Lindian has established a vastly superior rare earths resource that positions us in the top echelons of critical minerals companies globally. It is worth noting that the resource remains open and it is an outstanding outcome."

"I would like to acknowledge the hard work of our technical team in Malawi, and no-



Drilling work at Kangankunde hill

tably, the support of the Malawi Government and the local community. This MRE underpins the next phase of value catalysts for Lindian including mine and processing development activities and offtake agreements. We have a number of meaningful announcements pending that will deliver further value."

The MRE also includes multiple higher-grade subsets including 23MT at 3.23% TREO and the focus for the initial Stage 1 mine development, 60MT at 2.4% TREO and 46MT at 2.34% TREO

The company also reports that mineralisation remains open at depth and beyond some areas of the current mineral resource envelope

With the MRE now published, it signals that Lindian is well-placed to advance offtake discussions with multiple parties that have expressed interest.

Meanwhile, Lindian has completed third trench payment to acquire Kangankunde Mine, making the company a legally registered owner of 67% of the issued share Capital of Rift valley Resource Developments, with the final 33% to be transferred and registered in Lindian's name following payment of Tranche 4, the final Tranche.

So far, the Mine development works that Lindian is carrying out at Kangankunde are revealing exciting results indicating that Kangankunde is potentially the largest rare earth deposit in the world.



Sample collection at Kangankunde Hill

