



## Harena Resources PLC

LON:HREE | OTCQB: CRMNF

# Ampasindava Ionic Clay Rare Earth Project – Madagascar



## Contact

**Ivan Murphy**  
Executive Chairman

ivanm@harenaresources.com

+44 (0) 7778 728 539

harenaresources.com

@HarenaResources

company/harenaresources

### Our Company

- Harena Rare Earths Plc is a London Stock Exchange and OTC listed natural resources company that is strategically positioned to **supply critical rare earth magnet metals**, neodymium, praseodymium (NdPr) and dysprosium, terbium (DyTb) into supply chains that underpin national defense, advanced technology industries, and long-term supply chain resilience.
- At Harena we are focused on advancing the **100% Harena owned Ampasindava Rare Earths Ionic Clay Project** in Madagascar.
- Ampasindava is one of the **most significant Ionic Clay Rare Earths deposits in the world** outside of China. Harena is moving quickly to develop this Resource.

### Strategic Relevance to the United States

#### Non-Chinese Supply Source:

Harena offers one of the very few proven ionic clay deposits outside of China, ensuring diversification and reducing U.S. exposure to foreign control.

#### Defense & Technology Applications:

Heavy rare earths from Ampasindava are critical inputs for advanced U.S. defense systems, aerospace platforms, communications, and high-performance technologies.

#### Supply Chain Resilience:

Harena's concentrate is designed to feed directly into U.S. refining, strengthening secure and transparent supply lines.



### Momentum & Timeline

#### 2025–2026:

- OTC listing done
- Madagascar visit done
- DFC and State Dept met with
- PFS submitted by end 2025
- Mining Licence Award Q1 2026

#### 2027–2028:

- Commencement of construction
- First concentrate shipments are targeted for 2028
- A plausible timeline:



- Annual production at full steady state ~5,000 t TREO
- Estimated U.S.-accessible portion: ~1,500-2,500 t TREO/year in early years, depending on offtake share

### Next Capital Raise For:

- Convert its completed Pre-Feasibility Study to a Feasibility Study
- Finalize proof-of-concept for efficient concentrate production
- Complete laboratory testing and process optimization



## Company at a Glance

- ✓ **Globally Significant Resource:** 606,000 tonnes Total Rare Earth Oxides (Reporting of Exploration Results, Mineral Resources and Ore Reserves compliant), with a premium heavy rare earth mix.
- ✓ **Unique Market Position:** One of the only large ionic clay rare earth deposits outside of China; the only pure ionic clay Rare Earth Elements company on the London Stock Exchange.
- ✓ **Development Ready:** Pre-Feasibility Study (completion November 2025), Feasibility Study (Q1 2026), mining licence application advancing; operations targeted for 2028.
- ✓ **Exceptional Value:** Significantly discounted versus peers (>10x higher).
- ✓ **Backed by Leading US & UK Investors:** Wexford Capital in Connecticut, Fondren LLP in Houston, and RAB Capital in London



**Globally significant REE Project (Large ex-China Ionic Clay deposit based on JORC (2012) Resource)**



**Base Line Metallurgical Test Work Completed**



**606kt of Rare Earth Oxides In-Situ**



**High recovery of magnet metals**



**Geographically neutral supply of critical magnet metals**



**EIS and FS target completion funded**



**Rapid Remediation - Zero-Harm Environmental Model**



**Mining Licence Conversion Application at Ministry (subject to completion of Pre-Feasibility Study and EISA)**



## Conclusion:

Harena provides the United States with a unique opportunity to secure a trusted partner for rare earth supply - strengthening national defense, protecting technological superiority, and ensuring long-term supply chain resilience.

