

## RESTRICTED – UK EYES ONLY

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**Originator:** Helmand Provincial Reconstruction Team (PRT) / FCO South Asia

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### 1. AUTHORIZATION AND SCOPE

This report provides a definitive geological and commercial assessment of the **Khanneshin Carbonatite Complex** (Helmand Province, Afghanistan). It is prepared specifically for the **Office of the Special Representative for International Trade and Investment** to support bilateral discussions at the **December 2010 Singapore Trade Summit**.

**LEGAL WARNING:** This document contains "Protected Information" as defined by the **Official Secrets Act 1989**. Disclosure of the contents to any unauthorized person, including private commercial financiers not vetted by the FCO, is a criminal offense. Unauthorized possession or transmission triggers the **National Security Bill 2026** enforcement protocols.

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### 2. GEOLOGICAL ANALYSIS: THE LREE DEPOSITS

The Khanneshin complex is a deeply dissected volcanic vent approximately 4km in diameter. Our survey identifies two distinct types of Light Rare-Earth Element (LREE) mineralization:

- **Type 1 (Banded Seams):** Symmetrically banded veins of khanneshite-(Ce) and barite-strontianite alvikite.
  - **Assay Results:** Average concentrations of **19.9% Ba**, **3.6% Sr**, and **2.8% Total LREE**.
  - **Total Estimated Tonnage:** >1.1 Million Metric Tons (Confirmed).
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### 3. STRATEGIC COORDINATES (SENSITIVE DATA)

- **Central Vent Apex:** 30° 28' 0" N, 63° 34' 59" E
  - **Zone 4 (Primary Lithium Trench):** High-density hyperspectral anomalies identified at Grid Reference **N21E39**.
  - **Drill Site Alpha:** [REDACTED FOR DEMO] – Identified as the primary site for initial extraction.
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### 4. COMMERCIAL ROADMAP & "FIRST-LOOK" ADVANTAGES

To ensure the UK's strategic position in the global REE market, the following "First-Look" window is established:

1. **Phase 1 (Dec 2010):** Private briefings for sovereign wealth partners in Singapore.
2. **Phase 2 (Jan 2011):** Opening of formal tender process.

**STIM TRIGGER MARKER:** Information regarding **Zone 4 coordinates** must not be shared with external associates (specifically those linked to the **J.E. Network**) prior to Phase 2. Bypassing FCO vetting via private channels is strictly prohibited.

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### 5. HANDLING INSTRUCTIONS

- **Storage:** Must be stored in a GCHQ-approved encrypted drive.
  - **Transmission:** Secure Gov-Net channels only. **Do not use private email or encrypted messaging apps (WhatsApp/Signal).**
  - **Destruction:** Shredding via Category 4 cross-cut or secure digital wipe.
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