

TECHNICAL OVERVIEW & DUE DILIGENCE SUMMARY

5-Acre Prime Black Granite Quarry Asset • Perani Village, Tindivanam Taluk, Tamil Nadu

1. EXECUTIVE ASSET SUMMARY

- **Asset Name & Type:** Greenfield Black Granite Quarry Deposit
- **Total Land Extent:** 5.00 Acres (Clear Single Title, Direct Client Sale)
- **Proven Deposit Area:** ~3.50 Acres of virgin, unexploited bedrock deposit
- **Granite Classification:** Absolute Jet Black / Biotite-Pyroxene Charnockite
- **Export Grade:** Japanese Monumental Grade (High density, zero internal micro-fractures, deep pitch-black hue)
- **Operational Status:** 100% Fresh & Unworked (Zero legacy overburden pits)

2. GEOLOGICAL & MINERALOGICAL PROFILE

Situated in the Archean granulite belt of Villupuram District, the Perani bedrock exhibits an ultra-dense micro-crystalline structure. It provides exceptional polish retention and color uniformity, making it highly coveted in Japanese and European monumental stone markets.

3. PHYSICAL SPECIFICATIONS & ASTM TEST STANDARDS

Test Parameter	Standard Method	Achieved Value
Bulk Density	ASTM C97	3.02 g/cm³
Water Absorption	ASTM C97	0.04% (Low Porosity)
Compressive Strength	ASTM C170	262 MPa
Flexural Strength	ASTM C880	28.5 MPa
Hardness Scale	Mohs Scale	6.5 - 7.0

4. LOGISTICS, INFRASTRUCTURE & PORT CONNECTIVITY

- **Highway Access:** Direct connectivity via SH-136 to the 6-lane National Highway NH-45 (Chennai-Tiruchirappalli Corridor).
- **Export Ports:** Situated ~105 km north of Chennai Port and ~110 km from Kattupalli Port, ensuring optimized container haulage economics.
- **Industrial Proximity:** Close proximity to heavy machinery service hubs, wire-saw consumable suppliers, and Maraimalai Nagar Industrial Estate.

5. REGULATORY & ENVIRONMENTAL FRAMEWORK

- **Statutory Authorities:** Governed by Tamil Nadu Minor Mineral Concession Rules under the Department of Geology and Mining.
- **Buffer Zone Compliance:** Compliant layout allowing mandatory buffer distances from residential habitations and public roadways.
- **Environmental Guidelines:** Strict adherence to Tamil Nadu Pollution Control Board (TNPCB) norms, including wire-saw dust suppression and greenbelt development.

6. COMMERCIAL MONETISATION PATHWAYS

- **Route A (Direct Export):** Extract dimensional blocks (3m × 1.5m × 1.5m) for high-margin raw block exports.
- **Route B (Lease & Royalties):** Lease extraction rights to third-party operators for fixed monthly lease fees and per-cubic-meter royalties.
- **Route C (Captive Processing):** Feed raw blocks into an in-house cutting, polishing, and slab-finishing manufacturing unit.

Due Diligence Package & Direct Client Engagement

Comprehensive core drilling reports, topographical GPS maps, and title encumbrance certificates are available for qualified institutional buyers.

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