

ZEDEC ALLIANCE CONFIDENTIAL

# HIYKA

THE FOUNDATION - Carbon & Graphite Supply Partnership

## Executive Summary

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**Hiyka** is invited to serve as the primary carbon and graphite materials supplier for the Pangea Alliance, providing the foundational materials for graphene-based circuits and conductive composites.

**Your Role:** You are THE FOUNDATION. Your graphite becomes the graphene that forms the neural pathways of every GlyphMap device. Without carbon, there is no device.

## Why Hiyka

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- **Quality Graphite:** High-purity natural graphite suitable for graphene conversion
- **Reliable Supply:** Established mining and processing operations
- **Scalable Capacity:** Ability to grow with alliance demand
- **Competitive Pricing:** Cost-effective base for value-added processing

## Material Requirements

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## Graphite Specifications

Parameter	Requirement	Purpose
Purity	≥99.5% Carbon	Graphene quality
Particle Size	≤50 mesh	Processing efficiency
Ash Content	≤0.5%	Electrical performance
Moisture	≤0.3%	Storage stability
Form	Natural flake graphite	Graphene exfoliation

## Derived Materials (Processed by Alliance)

Material	Use in Device
Graphene Oxide	Conductive ink base
Reduced Graphene Oxide (rGO)	Circuit traces
Graphene-Silver Nano-ink	3D printed conductors
Graphene-Polymer Composite	Chassis reinforcement

## Volume Projections

Year	Devices	Graphite Required	Value (Premium)
Year 1	5,000	2.5 tonnes	\$125,000
Year 2	25,000	12.5 tonnes	\$625,000

Year 3	100,000	50 tonnes	\$2,500,000
Year 4	250,000	125 tonnes	\$6,250,000
Year 5	500,000	250 tonnes	\$12,500,000

## Financial Terms

### Premium Pricing Structure

Commodity Graphite Price	~\$1,000/tonne
Alliance Premium Price	<b>\$5,000/tonne</b>
Premium Multiple	<b>5× commodity rate</b>

### Why Premium Pricing:

- Specification compliance and quality assurance
- Traceability and chain of custody documentation
- Priority allocation guarantee
- Long-term offtake agreement security

### 5-Year Revenue Projection

Total Volume	440 tonnes
Total Revenue	<b>\$22,000,000</b>

vs. Commodity Sale	\$4,400,000
Alliance Premium Gain	<b>\$17,600,000 additional</b>

## Offtake Agreement Terms

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- **Duration:** 5-year exclusive supply agreement
- **Volume Commitment:** Minimum annual quantities as per projection
- **Price Lock:** Fixed premium pricing with annual inflation adjustment
- **Quality Guarantee:** COA for each shipment
- **Delivery:** CIF to DP World UAE hub

## The Cost of NOT Joining

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- Commodity pricing (~\$1,000/tonne) vs premium (\$5,000/tonne)
- No long-term volume guarantee
- Competitor graphite suppliers gain exclusive access
- Miss 5× premium on 440 tonnes = \$17.6M opportunity cost

## Next Steps

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1. **Sample Submission:** 10kg sample for graphene conversion testing
  2. **Specification Confirmation:** COA verification against requirements
  3. **Commercial Terms:** Offtake agreement negotiation
  4. **First Order:** 2.5 tonnes for Year 1 production
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*"Your graphite becomes the neural pathways of healing."*