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MBK Carbon Credit MRV & Issuance Overview (High-Level Version)

Project Title: MBK International Biochar Carbon Removal Platform
Prepared For: Corporate Carbon Credit Buyers & Institutional Offtake Partners
Document Status: Pre-NDA / General Distribution

Overview:
MBK International is pioneering one of the world's first scalable, tamper-proof, blockchain-enabled carbon removal systems using advanced biochar production. Our MRV (Monitoring, Reporting, and Verification) system is designed for transparency, auditability, and certification-readiness from day one.

This high-level summary outlines how MBK ensures that every ton of CO2e removed is traceable, verified, and registry-aligned without disclosing protected technology or implementation infrastructure.

Key Features of MBK's MRV System:

1. Blockchain-Based Traceability

- Each biochar production batch is registered on IBM Hyperledger Fabric.
- Time-stamped, immutable logs ensure fraud-proof lifecycle tracking.
- Credits are uniquely linked to CO2 removal data and verified milestones.

2. IoT and AI-Enabled Data Capture

- Environmental and operational data (e.g., temperature, moisture, mass throughput) is captured through IoT sensors at key process points.
- AI analytics are used to forecast emissions efficiency and validate performance.

3. Registry Compatibility

- MRV framework is aligned with Verra VM0044, Puro.Earth, CAR, and Gold Standard methodologies.
- Lifecycle documentation supports third-party audits and integration into voluntary registries and marketplaces.

4. Third-Party Assurance

- SCS Global Services and DNV are contracted for independent review and validation of credit generation and emissions permanence.
- Internal controls and audit processes are embedded into the MRV reporting structure.

5. Reporting & Buyer Integration

- Quarterly and annual issuance reports will be provided to buyers, including:
    - Verified tons of CO2e sequestered
    - Blockchain hash reference
    - Feedstock and batch data summary
    - Audit verification certification
- Data is exportable via API for integration into ESG platforms and compliance systems.

Credit Delivery Framework:

- Milestone-based issuance tied to real production and audit clearance
- Credits will be pre-tagged and traceable from feedstock input to soil application or locked carbon end-use
- Credit tokens are eligible for listing on carbon marketplaces post-audit

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Note: This document is designed for general circulation and does not include proprietary infrastructure design, smart contract architecture, or vendor-specific automation systems. That information is made available in MBK's gated data room under NDA only.

For further discussion or NDA access, contact:
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