FIBER

FRAMEWORK FOR INCOME BIODIVERSITY & EMISSION REDUCTION

STANDARDS FOR PROJECT DEVELOPERS & VALIDATION AND VERIFICATION BODIES (VVBs)

Quantification of Upstream Polymeric Source Reduction through Serialized Jute Material Displacement and Lifecycle Displacements (JPAC Framework).

METHODOLOGY CODE:	TJF-METH-0002 (Version 1.1)
ASSET CLASS:	Jute Plastic Avoidance Credits (JPACs)
PRIMARY SCOPE:	Upstream Source Reduction & Polymeric Material Displacement
SECONDARY SCOPE:	Sectoral Scope 1 (Agriculture & Supply Chain Safeguards)
ELIGIBLE POLYMERS:	HDPE, LDPE, LLDPE, PP (Polypropylene)

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1. CORE PRINCIPLES of ASSET INTEGRITY

All project activities submitted for registration, validation, and verification under the **TJF-METH-0002** framework must maintain absolute adherence to the following three foundational pillars of environmental market integrity, PCQI:

1.1 Real and Measurable Reductions

- **Definitive Quantifiability:** Credits shall only be minted for verified, physical metric tons of fossil-fuel plastic prevented from entering the global economy.
- **The Post-Distribution Mandate:** The registry establishes a strict data priority rule: real-world, post-distribution logistics log reviews and verified point-of-sale data shall take absolute precedence over a manufacturing mill's theoretical production maximums or baseline forecasts.
- **Serialization Linkage:** No credit tranche may clear unless it is explicitly tied to unique, active QR/RFID serialized identifiers woven directly into the alternative material infrastructure.

1.2 Conservative Accounting

- **The Margin-of-Error Principle:** To eliminate asset inflation risk, whenever data precision drifts or survey sampling pools exhibit high variance, the registry shifts the calculation burden to the project developer.
- **No Approximations:** Developers are legally required to accept the progressive Uncertainty Deduction Factors (UDF) outlined in Section 12.
- **Rounding Restrictions:** The registry enforces strict truncation rules: no rounding errors, unchecked approximations, or speculative "ghost credit" additions are permitted within any database calculation loop.

1.3 Unique and Non-Fungible Assets

- **Asset Singularity:** Each Upstream Plastic Avoidance Credit (JPAC) represents a single, unique, non-fungible metric ton of net-avoided plastic.
- **Anti-Stacking Interlocks:** Under no circumstances may an active project boundary dual-register its physical mass across carbon registries (e.g., claiming biogenic agricultural soil carbon sequestration) or Extended Producer Responsibility (EPR) national compliance pools.

- **Automatic De-listing:** Any project found to be simultaneously trading the same material volume under separate voluntary or compliance registries shall face instant, permanent de-listing from the voluntary ledger and the total invalidation of all unretired serial numbers.

2. COMPETENCE and ACCREDITATION STANDARDS for VVBs

To conduct independent validations or periodic verifications under this methodology, an auditing entity must formally demonstrate compliance with the following three pillars of professional competence:

2.1 Formal Accreditation Base

- **Accreditation Framework:** The Validation and Verification Body (VVB) must maintain active, unexpired accreditation under **ISO 14065** (*General principles and requirements for bodies validating and verifying environmental information*).
- **Standard Recognition:** Alternatively, the VVB must be formally approved as an active, designated third-party auditor under major recognized international greenhouse gas or plastic standard programs.

2.2 Sectoral Competence Matrix

The VVB audit team assigned to the project boundary must possess deep technical engineering knowledge across two distinct industrial sectors:

- **Agricultural and Textile Engineering:** At least one designated lead auditor must hold formal academic or professional credentials in textile processing or agricultural science. This is mandatory to audit raw jute processing, retting effluents, and to execute the ISO 287 moisture-regain calibration scale checks.
- **Polymers and Waste Logistics:** At least one designated lead auditor must demonstrate expert competence in packaging polymers, plastics manufacturing, and municipal waste logistics. This is required to cross-examine Fourier-Transform Infrared Spectroscopy (FTIR) lab results and verify localized baseline waste destination maps.

2.3 Impartiality Mandate and Conflict of Interest Limits

- **Financial Independence:** The VVB, including its parent corporations, subsidiaries, and individual audit team members, shall have no direct or indirect financial, consultative, or operational stake in the project development entity being audited.

- **Consulting Ban:** The VVB is strictly prohibited from providing methodology-drafting or project-design consulting services to the developer within the 36 months preceding the audit.
- **Brokerage Restriction:** The VVB shall hold no interest in the secondary marketing, brokerage, pricing, or eventual sale of the generated JPAC tokens. Failure to maintain absolute structural impartiality will result in the immediate revocation of the VVB's registry auditing credentials.