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Distributed Ownership and Traceability for Medical Cannabis

How Vishva Vijayaa Foundation is using blockchain to build a network that its members own, and a record that follows every product from farm to consumer.

Summary

India's medical cannabis industry is made up of small licensed manufacturers, cultivators, doctors and patients who have no shared way to prove what a product is or where it came from.

Vishva Vijayaa Foundation (VVF) is a community-owned non-profit building that shared layer. This paper sets out the framework in two parts:

- **Traceability.** A blockchain record that follows each licensed batch from cultivation to the person who uses it.
- **Distributed ownership.** Membership tokens that give every participant a stake and a vote in the network itself.

The framework is a draft for consultation. Its legal structure is still being designed, and nothing in it is an offer of tokens, securities or cannabis products.

1. The problem

The industry's pain points are structural. No single company can fix them alone.

Lack of transparency

Track-and-trace capability is limited. A doctor or a patient usually has no way to check a product's origin, its test results or how it was handled.

Supply chain inefficiency

Logistics are complex, which causes delay and cost. Inventory and batch records are often kept by hand, and each party keeps its own.

Restricted access to finance

Banks are cautious about the sector. Small producers work largely in cash, which raises their risk and keeps them out of formal credit.

2. A network its members own

A traceability system only works if every party trusts it. That is hard when one manufacturer, one platform or one investor owns the record.

VVF is a not-for-profit company limited by guarantee. It holds the network as a commons: it does not sell cannabis, it distributes no profit, and its rules are set by its members. Blockchain is the tool that makes

this practical, because it lets many independent parties share one record that none of them can quietly change.

3. Traceability from farm to consumer

Blockchain offers a secure, tamper-evident ledger. On it, a batch can be followed from seed to sale.

Provenance tracking

Each batch carries a verified record of where it was grown, under which licence, and every hand it passed through. Authenticity can be checked, not just claimed.

Quality assurance

Lab results and cultivation data are attached to the batch and shared with those who need them, so that safety and consistency can be shown.

Informed use

Doctors and patients can see what a product contains and how it was made, and decide on that basis.

Where AI fits

The ledger keeps the record honest. AI makes it usable: it reads batch documents and lab reports, flags gaps and inconsistencies, and finds patterns across cultivation, formulation and outcomes.

4. Distributed ownership

The network's membership is represented by tokens. A token here is a record of membership and participation. It is not a currency and not a claim on cannabis. Four design elements shape it.

Utility

A member's token is its key to the network: to register batches, read verified records, and reach other members.

Incentives

Members earn standing by contributing what the network needs, such as verified batch data, lab reports and clinical observations. Contribution is rewarded; consumption is not.

Governance

Members vote on the network's rules, standards and priorities. Farmers, manufacturers, doctors and patients each have a voice.

Value that stays in the commons

As more members and data join, the network becomes more useful to all of them. Any surplus VVF earns is reinvested in the network and its research, as a non-profit must.

5. How it works in practice

A digital record for every batch

A licensed cultivation batch is represented by a digital token that records its growth, harvest and yield. The token is the batch's identity on the ledger; it travels with the product.

Automated handoffs

Smart contracts record each transfer between cultivator, processor, lab, manufacturer and dispenser. This reduces manual entry and the errors that come with it.

Transparent settlement between members

When members trade with each other, agreed terms can be settled automatically and visibly, so that a small farmer or manufacturer is paid what was agreed, when it was agreed.

6. Patients and consumers

The people who use these products are members too, not just an audience.

- **Verified information.** Scan a product and see its origin and test results.
 - **Access to qualified practitioners.** Doctors of Ayurveda and Western medicine who can see the same record.
 - **A voice.** Take part in the governance of the network that serves them.
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7. Compliance by design

The framework is built to operate inside the law, and membership depends on it.

Licensing

Only licensed cultivators, manufacturers and practitioners can register on the supply side. Members follow the NDPS Act, 1985, state rules and the applicable drug-licensing regime.

KYC and anti-money-laundering

Every member is identified. Know-your-customer and anti-money-laundering checks apply to anyone who transacts on the network.

Data privacy

Personal and health data are protected and stay under the individual's control, in line with India's data-protection law.

What the tokens are not

Membership tokens are not a cryptocurrency for buying cannabis, and they are not offered as an investment. How members' stakes are held will be settled with legal counsel and regulators before any token is issued.

8. Opportunities and challenges

Standards that travel

A shared, open record lets Indian producers meet the documentation that other regulated markets require, wherever export is lawful.

Financial inclusion

A verifiable trading history gives small producers something to show a lender, and a route into formal finance.

New cooperative models

Tokenised membership makes it practical to run a large, dispersed network on cooperative lines.

The challenges

Regulation of both cannabis and digital assets is still evolving in India. Adoption depends on small producers finding the tools simple enough to use. The framework will be revised as both become clearer.

9. Join the network

VVF invites licensed cultivators and manufacturers, doctors of Ayurveda and Western medicine, laboratories, researchers and technology partners to apply to join the network and help shape this framework.

Apply at thevfvf.org or write to hello@thevfvf.org.

Acknowledgement

This paper adapts "Tokenising Cannabis: A Framework for Value Creation" by Nija Venture Impacts (nija.world) for the Vishva Vijayaa Foundation network.

This document is for information and consultation. It is not legal, financial or medical advice, and it is not an offer or invitation to acquire tokens, securities or cannabis products.