SAMRUDO

$SMRD

India's Global Payment Layer

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Powered by BharatChain — Filling the gaps UPI cannot

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AbstractAbstract

Samrudo ($SMRD) is India's first purpose-built global payment blockchain — designed to do everything UPI does, and everything UPI cannot. Built on BharatChain, a Layer-1 blockchain optimised for India's scale, language diversity, and regulatory environment, Samrudo bridges the ₹135 billion annual remittance gap, enables compliant decentralised finance (DeFi) for 91 million Indian crypto users, and tokenises real-world Indian assets including gold, real estate, and agricultural commodities.

The name Samrudo is coined from Samridhi (समृद्धि) — Sanskrit for prosperity and abundance. Our mission is simple: make Indian prosperity flow globally, at UPI speed, with blockchain security.

With 72.7% of Indian crypto volume going offshore due to poor INR rails, no regional language support in any existing crypto product, and zero compliant DeFi infrastructure for Indian users, Samrudo fills every gap the existing Indian crypto ecosystem has left open.

Table of ContentsTable of Contents

1. Executive Summary
2. Problem Statement
3. Market Opportunity
4. Solution — Samrudo & BharatChain
5. Core Features
6. Technology Architecture
7. Tokenomics
8. Regulatory Strategy
9. Go-to-Market Strategy
10. Roadmap
11. Team Structure
12. Risk Factors
13. Legal Disclaimer

1. Executive Summary1. Executive Summary

India is the world's largest remittance receiver ($135B+ annually), has 91 million crypto users, and operates the world's most successful instant payment system — UPI. Yet Indian crypto users are underserved at every level: no native UPI integration, no regional language wallet, no compliant DeFi, and no tokenised real-world assets.

Samrudo solves all of this in one unified blockchain ecosystem:

- Native UPI bridge — pay any UPI QR directly from your Samrudo wallet, no exchange needed
- 22 Indian languages — the first crypto wallet built for Tier 2, 3, and 4 India
- FIU-IND compliant DeFi — regulated decentralised finance that satisfies Indian law
- RWA tokenisation — Indian gold, real estate, and agri-commodities on-chain
- Micro-fee engine — under ₹0.01 per transaction for everyday payments
- Cross-border remittance rails — India ↔ UAE, UK, USA, Singapore at 0.1% fees

Token: $SMRD | Chain: BharatChain (own L1) | Consensus: Delegated Proof of Stake | Target users: 91M Indian crypto users + 32M Indian diaspora globally

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2. Problem Statement2. Problem Statement

2.1 The UPI Gap2.1 The UPI Gap

UPI revolutionised Indian domestic payments — ₹20 lakh crore processed monthly, 300+ million users, sub-3-second settlement. But UPI has hard limits:

- No cross-border support — UPI cannot send money to UK, UAE, or USA directly
- No asset investment — UPI cannot buy gold, real estate fractional ownership, or commodities
- No DeFi — UPI has no lending, staking, or yield generation capability
- No programmable money — UPI cannot execute smart contracts or conditional payments
- Controlled by NPCI — a single point of failure; blocked randomly for crypto-related transactions

2.2 The Indian Crypto Gap2.2 The Indian Crypto Gap

Existing Indian crypto projects (Polygon, WazirX, Push Protocol, Stader Labs) are all built on foreign blockchains (Ethereum, Solana, Binance Chain) with no India-native context:

- 72.7% of Indian crypto trading volume goes offshore due to poor INR on/off ramps
- Zero wallets support Hindi, Tamil, Telugu, Marathi, Bengali, or any regional language
- No FIU-IND compliant DeFi product exists for Indian users
- No Indian blockchain has tokenised gold, real estate, or agricultural commodities

- 30% TDS on crypto gains + poor exchange infrastructure drives users underground

2.3 The Remittance Gap2.3 The Remittance Gap

India receives $135 billion in annual remittances — the world's largest. Current remittance channels charge 4–8% fees and take 1–5 business days. Samrudo targets this with 0.1% fees and instant settlement — saving Indian families ₹50,000–₹2,00,000 per year in transfer costs alone.

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3. Market Opportunity3. Market Opportunity

India crypto users (2026)	91 million
India crypto market revenue (2026)	$9.1 billion
India annual remittance inflow	$135 billion
Indian diaspora globally	32 million
India real estate market	$3.8 trillion
India gold holdings (world's largest)	~25,000 tonnes
UPI monthly transaction volume	₹20 lakh crore
Crypto SIP adoption growth (2025)	+623% YoY
Global tokenisation market (2030)	$30 trillion

Samrudo's total addressable market across cross-border payments, compliant DeFi, and RWA tokenisation in India exceeds $500 billion by 2030.

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4. Solution — Samrudo & BharatChain4. Solution — Samrudo & BharatChain

4.1 BharatChain — India's First Native L14.1 BharatChain — India's First Native L1

BharatChain is the underlying Layer-1 blockchain powering Samrudo. Unlike existing Indian crypto projects that rely on Ethereum or Solana, BharatChain is purpose-built for India:

- Consensus: Delegated Proof of Stake (DPoS) — 21 elected validator nodes, energy efficient
- Block time: 1.5 seconds — matching UPI's near-instant settlement experience
- Throughput: 10,000+ TPS — handles India's payment scale
- Fee structure: micro-fee engine targeting under ₹0.01 per transaction
- EVM compatible — existing Ethereum dApps can deploy on BharatChain with zero code changes
- Native INR stablecoin — INRX, a fully reserved INR-backed stablecoin built into the chain

4.2 Samrudo Token ($SMRD)4.2 Samrudo Token ($SMRD)

$SMRD is the native utility and governance token of BharatChain. It powers all transaction fees, staking rewards, governance voting, and RWA tokenisation on the network.

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5. Core Features5. Core Features

5.1 Native UPI Bridge5.1 Native UPI Bridge

Samrudo Wallet users can scan any UPI QR code and pay directly from their crypto balance — converted to INR in real time via the INRX stablecoin. No centralised exchange required. This makes Samrudo the first crypto wallet where you can pay your electricity bill, rent, or kirana store directly from a DeFi wallet.

5.2 22 Indian Language Support5.2 22 Indian Language Support

Samrudo Wallet is available in all 22 scheduled Indian languages — Hindi, Tamil, Telugu, Marathi, Bengali, Gujarati, Kannada, Malayalam, Punjabi, Odia, and 12 more. This is the first crypto product built for Bharat, not just urban India.

5.3 FIU-IND Compliant DeFi5.3 FIU-IND Compliant DeFi

Samrudo's DeFi layer uses a permissioned pool architecture — KYC-verified Indian users access lending, staking, and yield products that satisfy FIU-IND (Financial Intelligence Unit India) reporting requirements. This is compliant DeFi — not a legal grey zone.

- Lending pools: borrow INRX against $SMRD, BTC, or ETH collateral
- Staking: earn 8–15% APY by staking $SMRD and validating BharatChain
- Yield farming: provide liquidity to INRX/SMRD pools and earn rewards
- SIP mode: automated weekly/monthly crypto investments like a mutual fund

5.4 RWA Tokenisation5.4 RWA Tokenisation

Samrudo's Real World Asset layer brings India's largest asset classes onto BharatChain:

- Digital Gold (DGLD): tokenised physical gold, 1 DGLD = 1 gram of audited gold
- Fractional Real Estate (REIT tokens): own ₹100 worth of Mumbai commercial property
- Agri tokens: invest in wheat, rice, and cotton futures backed by NCDEX contracts

5.5 Cross-Border Remittance Rails5.5 Cross-Border Remittance Rails

Send money from UAE, UK, USA, or Singapore to any Indian UPI address in under 30 seconds at 0.1% fees — compared to 4–8% via SWIFT or hawala networks. Samrudo partners with licensed money transfer operators (MTOs) in each corridor for regulatory compliance.

5.6 Freelancer Earn + Spend5.6 Freelancer Earn + Spend

India's 15 million freelancers can now receive USD/USDT payments from global clients directly into their Samrudo wallet, convert to INRX automatically, and spend via UPI — with auto-generated Form 26AS compatible income reports for ITR filing.

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6. Technology Architecture6. Technology Architecture

6.1 Consensus Mechanism6.1 Consensus Mechanism

BharatChain uses Delegated Proof of Stake (DPoS) with 21 elected validator nodes. Token holders stake $SMRD to vote for validators. Validators earn block rewards + transaction fees. Minimum validator stake: 1,00,000 $SMRD. Slashing conditions: double-signing, downtime > 12 hours.

6.2 Smart Contract Layer6.2 Smart Contract Layer

BharatChain is EVM-compatible — Solidity smart contracts deploy without modification. The native smart contract VM also supports CosmWasm for interoperability with Cosmos-based chains (IBC protocol). This enables Samrudo to bridge assets with Cosmos, Ethereum, and BNB Chain natively.

6.3 UPI Bridge Architecture6.3 UPI Bridge Architecture

The UPI bridge operates through a licensed Payment Aggregator (PA) partnership under RBI's PA regulations. Flow: User scans UPI QR → Samrudo app decodes VPA → INRX locked in escrow smart contract → PA layer converts INRX to INR → UPI payment sent to merchant VPA → confirmation in < 30 seconds.

6.4 Security Model6.4 Security Model

BharatChain employs multi-layer security: formal verification of core contracts (CertiK audit), a ₹10 crore bug bounty program, a Samrudo Security Council (7 multisig) for emergency pauses, and quarterly third-party penetration testing. All validator keys use HSM (Hardware Security Modules).

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7. Tokenomics7. Tokenomics

7.1 Token Supply7.1 Token Supply

Token name	Samrudo
Ticker symbol	$SMRD
Total supply	1,000,000,000 (1 billion) $SMRD — fixed
Blockchain	BharatChain (own L1)
Token standard	Native BharatChain + ERC-20 bridge
Decimals	18

7.2 Token Distribution7.2 Token Distribution

Community & ecosystem	35% — 350M SMRD
Founders & team	15% — 150M SMRD (4-year vesting, 1-year cliff)
Investors & advisors	12% — 120M SMRD (2-year vesting)
Reserve fund	15% — 150M SMRD (multisig controlled)
Liquidity provisioning	10% — 100M SMRD (DEX + CEX liquidity)
Staking rewards (10 years)	10% — 100M SMRD (released over 10 years)
Public sale / IDO	3% — 30M SMRD

7.3 Token Utility7.3 Token Utility

- Transaction fees: all BharatChain gas fees paid in $SMRD (or INRX with 10% premium)
- Staking: stake $SMRD to earn block rewards + validator selection rights
- Governance: 1 $SMRD = 1 vote on protocol upgrades, fee parameters, RWA listings
- DeFi collateral: use $SMRD as collateral to borrow INRX in Samrudo lending pools
- RWA access: $SMRD required to participate in tokenised gold/real estate/agri launches
- Fee discounts: holding 1,000+ $SMRD gives 50% fee discount on UPI bridge transactions

7.4 Burn Mechanism7.4 Burn Mechanism

20% of all UPI bridge fees are permanently burned — reducing $SMRD supply over time. At projected Year 3 volumes (₹1,000 crore daily), this burns approximately 2.4 million $SMRD per year, creating deflationary pressure aligned with network growth.

8. Regulatory Strategy8. Regulatory Strategy

8.1 India8.1 India

Samrudo operates within India's regulatory framework from day one — not as an afterthought:

- FIU-IND registration as a Virtual Digital Asset Service Provider (VASP)
- KYC/AML compliance using Aadhaar-based eKYC and PAN verification
- 30% TDS reporting infrastructure built into the wallet for user ITR compliance
- UPI bridge operates through RBI-licensed Payment Aggregator partnership
- RWA tokenisation structured as fractional ownership under SEBI's framework

8.2 International Jurisdictions8.2 International Jurisdictions

The Samrudo Foundation is incorporated in Singapore (a crypto-friendly jurisdiction with MAS oversight). Remittance corridors operate through licensed MTOs in UAE (CBUAE licensed), UK (FCA registered), and USA (FinCEN MSB registered). This gives Samrudo a clean regulatory trail across all major Indian diaspora corridors.

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9. Go-to-Market Strategy9. Go-to-Market Strategy

Phase 1 — Bharat First (Month 1–9)Phase 1 — Bharat First (Month 1–9)

Launch in Tier 2 and 3 Indian cities first — not Mumbai and Bangalore. Target: auto-drivers, small traders, freelancers, and gig workers who use UPI daily but have no access to crypto. Partner with regional language YouTubers (Hindi, Tamil, Telugu) for community building. Target: 1 lakh wallets in 6 months.

Phase 2 — Diaspora Corridor (Month 9–18)Phase 2 — Diaspora Corridor (Month 9–18)

Launch remittance product for Indian diaspora in UAE, UK, and USA. Partner with Indian community associations, cricket clubs, and regional associations. Target: 10,000 active monthly remittance users generating real volume by Month 18.

Phase 3 — DeFi & RWA (Month 18–30)Phase 3 — DeFi & RWA (Month 18–30)

Launch compliant DeFi products — lending, staking, SIP mode — and the first RWA tokenisation (Digital Gold). Partner with NBFC for lending regulatory cover. Target: ₹100 crore TVL (Total Value Locked) by Month 30.

Phase 4 — Global Exchange Listings (Month 30–36)Phase 4 — Global Exchange Listings (Month 30–36)

Apply for KuCoin, Bybit, and Gate.io listings based on proven traction. Apply for Binance and Coinbase based on community size, volume, and compliance track record. Target: Top 500 CoinMarketCap ranking by Month 36.

10. Roadmap10. Roadmap

Q3 2026	Trademark filing (IP India + USPTO), domain registration, team formation, whitepaper release
Q4 2026	BharatChain testnet launch, smart contract development, security audit (CertiK), seed funding raise
Q1 2027	BharatChain mainnet launch, Samrudo Wallet beta (Hindi + English), DEX listing (Uniswap/PancakeSwap)
Q2 2027	UPI bridge v1 launch, 22-language wallet, CoinDCX + WazirX listing, 1 lakh wallet target
Q3 2027	UAE remittance corridor launch, FIU-IND VASP registration, DeFi lending pool v1
Q4 2027	UK + USA remittance corridors, Digital Gold (DGLD) launch, KuCoin listing application
Q1 2028	Fractional real estate tokens, SIP mode launch, 10 lakh wallets, Bybit listing
Q2 2028	Agri commodity tokens, governance DAO launch, Binance/Coinbase application

11. Team Structure Needed11. Team Structure Needed

Samrudo requires the following team to execute this vision:

CEO / Founder	Vision, fundraising, regulatory relationships, exchange BD
CTO	BharatChain architecture, smart contracts, security model
Blockchain Engineers (3)	Core chain development, EVM compatibility, bridge contracts
Mobile Developer (2)	iOS + Android Samrudo Wallet, 22-language support
Legal Counsel	India (FIU-IND, SEBI, RBI) + Singapore + UAE compliance
Head of Growth	Community, marketing, influencer partnerships, Tier 2/3 India
DeFi Product Lead	Lending pools, staking, SIP mode, RWA structuring
Compliance Officer	KYC/AML, TDS reporting, FIU-IND reporting

12. Risk Factors12. Risk Factors

- Regulatory risk: RBI or SEBI may impose restrictions on crypto products — mitigated by FIU-IND registration and proactive regulatory engagement
- Technical risk: BharatChain security vulnerabilities — mitigated by CertiK audit, bug bounty, and Security Council
- Competition risk: existing exchanges (WazirX, CoinDCX) may copy features — mitigated by UPI bridge patent filing and first-mover advantage
- Liquidity risk: insufficient DEX liquidity at launch — mitigated by 10% token allocation to liquidity provisioning

- Adoption risk: Indian users may be slow to adopt — mitigated by regional language support and Tier 2/3 city focus
- Market risk: crypto market downturn — mitigated by real utility (UPI bridge, remittances) not purely speculative value

13. Legal Disclaimer13. Legal Disclaimer

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