VTCN

VERSATIZE COIN

Official Whitepaper v2.0

India's First Native Layer-1 Blockchain Ecosystem

Powering the Future of Decentralized Finance

Blockchain:	BC Hyper Chain
Chain ID:	3030 (Mainnet) | 6060 (Testnet)
Native Token:	VTCN (Versatize Coin)
Consensus:	Proof of Stake Authority (PoSA)
Total Supply:	100,000,000 VTCN
Explorer:	bchscan.io

January 2026

www.versatizecoin.com | www.bchscan.io | www.bcswap.org

Built on Proof of Stake | Empowering Web3 & DeFi

Vision beyond the Chain

"Blockchain is not the destination—
it is the foundation.
BC Hyper Chain exists to connect decentralized innovation
with real-world systems at global scale."

Founder's Message

BC Hyper Chain & VTCN Whitepaper v2.0

I am pleased to present **BC Hyper Chain Whitepaper v2.0**—a comprehensive technical and strategic document that defines our approach to building scalable, responsible, and real-world–ready blockchain infrastructure.

This whitepaper is not intended as a narrative or a promise of speculation. It is a clear articulation of architecture, governance philosophy, and execution strategy behind BC Hyper Chain and its native utility ecosystem. It reflects months of focused engineering, system design, and operational planning by our core team.

BC Hyper Chain is designed as a **Layer-1 blockchain infrastructure**, purpose-built to support decentralized applications, token utilities, and cross-ecosystem integrations. Rather than adding incremental features, we focused on foundational elements: performance consistency, energy efficiency, EVM compatibility, and a governed protocol model capable of long-term evolution.

With the transition to **mainnet on April 18, 2025 (Chain ID 3030)**, BC Hyper Chain entered a live operational phase. This milestone represents more than a network launch—it marks the readiness of a complete ecosystem that includes on-chain visibility, decentralized exchange functionality, validator participation, and developer tooling.

Key infrastructure components now operating within the ecosystem include:

- **BCH Explorer** for transparent on-chain visibility
- **BC Swap**, a decentralized exchange supporting token liquidity
- A **validator network** securing the protocol through Proof of Stake
- **Full EVM compatibility**, enabling seamless deployment of existing smart contracts
- A **utility-focused wallet framework** supporting asset management and staking

At the centre of this ecosystem is **VTCN (Versatize Coin)**, a fixed-supply utility token designed to support network operations, transaction fees, and ecosystem participation. Its role is defined by use, not speculation, and its economics are detailed transparently within this whitepaper.

Our long-term vision is straightforward:

To make interaction between blockchain systems and real-world finance **simple, reliable, and accessible**. Whether for developers building applications, enterprises integrating blockchain infrastructure, or users transacting across borders, BC Hyper Chain is designed to reduce friction without compromising security or control.

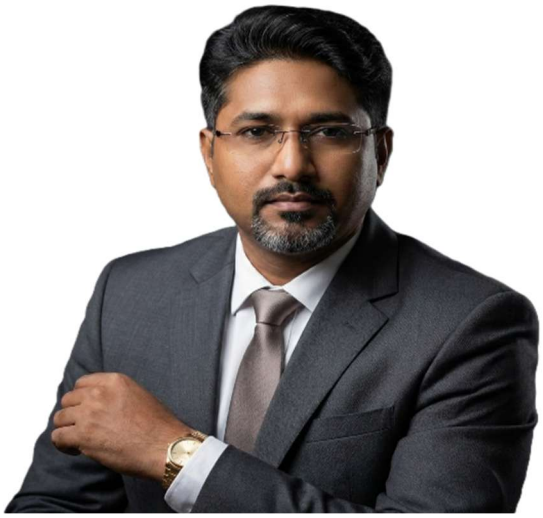
Equally important, this journey is not solely about technology. It is about **trust, governance, and accountability**. This whitepaper serves as a reference point for how we design systems, manage risk, and evolve the network responsibly alongside a growing ecosystem.

We invite developers, infrastructure partners, enterprises, educators, and innovators to build on BC Hyper Chain—to deploy applications, tokenize assets, and contribute to an ecosystem focused on sustainable growth rather than short-term momentum.

"**Big Dream with Bright Future**" is not a slogan for us. It is an execution mindset—grounded in architecture, disciplined by governance, and guided by long-term thinking.

On behalf of the entire **PN Software Tech and BC Hyper Chain Core Team**, I extend my sincere appreciation to everyone who has contributed to this journey so far.

With Whitepaper v2.0, we are not announcing an idea. We are documenting a system—live, evolving, and built for the future.



Prosanta Nag
Founder & Chief Executive Officer
PN Software Tech Pvt. Ltd

X Profile

BC HYPER CHAIN

Executive Leadership Profiles

Mr. Smith - Chief Technology Officer

X Profile

Cipher7A

PN SOFTWARE TECH

Innovation & R&D Lead

Mr. Smith is the Chief Technology Officer and Innovation & R&D Lead at BC Hyper Chain (PN Software Tech Private Limited). He architects and implements the core blockchain infrastructure, consensus mechanisms, and smart contract platforms that power India's first indigenous Layer-1 blockchain.

As the technical visionary behind BC Hyper Chain's architecture, Mr. Smith oversees the development of high-performance systems capable of processing 1,200+ transactions per second with 3-second block times. His expertise spans distributed systems, cryptographic protocols, and decentralized finance infrastructure.

Prior to joining BC Hyper Chain, Mr. Smith accumulated extensive experience in blockchain development and enterprise software architecture. His work has focused on building scalable, secure systems that bridge traditional finance with decentralized technologies.

Mr. Smith's technical leadership encompasses the **https://bchscan.io/** blockchain explorer, BC-SWAP decentralized exchange, and the comprehensive DeFi ecosystem. He ensures full EVM compatibility while maintaining the unique performance advantages of the BC Hyper Chain protocol.

Rumpa Nag - Chief Marketing Officer

X Profile

RUMPA NAG

PN EXPLORE

Marketing & Growth Lead

Rumpa Nag manages the strategic rollout for multiple exchange listings, coordinating marketing initiatives for AscendEx (January, 2026), Coinstore (January,2026), BTCC (January 2026), and BitMart. Her campaigns focus on building anticipation and community engagement around each milestone.

Her marketing leadership has achieved remarkable results, with press coverage reaching 634.8M+ potential audience across 216 publishers including Google News and Yahoo News. She orchestrates integrated campaigns across YouTube, Instagram, Facebook, Telegram, X, Discord, and WhatsApp channels.

BC Hyper Chain Ecosystem – Built for the Future of Crypto

Protocol Steward & Engineering Authority

Explore
Marketing & Adoption

Tech
Innovation & Infrastructure

Compliance
Regulatory & Risk Mitigation

BC Hyper Chain Mainnet

BC Hyper Chain Mainnet

Faster | Cheaper | Greener

A Next-Generation Layer-1 Blockchain Economy

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Legal Disclaimer & Important Notices

Important Notice

This whitepaper is for informational purposes only and does not constitute financial, investment, legal, or tax advice. The information contained herein is subject to change without notice. Readers should conduct their own due diligence and consult with qualified professionals before making any investment decisions.

No Investment Advice

VTCN (Versatize Coin) tokens are utility tokens designed for use within the BC Hyper Chain ecosystem. They are not securities, investment contracts, or financial instruments. The purchase, sale, or holding of VTCN tokens does not represent an investment in any company, project, or entity. Past performance is not indicative of future results.

Forward-Looking Statements

This document contains forward-looking statements regarding the development, features, and potential of BC Hyper Chain and VTCN. These statements involve known and unknown risks, uncertainties, and other factors that may cause actual results to differ materially from those expressed or implied. No guarantee is made regarding the achievement of stated objectives.

Regulatory Compliance

BC Hyper Chain and VTCN operate under the regulatory framework of India. Users are responsible for ensuring compliance with applicable laws and regulations in their respective jurisdictions. This document does not constitute an offer or solicitation in any jurisdiction where such activities are prohibited.

Intellectual Property

All intellectual property rights related to BC Hyper Chain, VTCN, BC Swap, and associated technologies are owned by PN Software Tech Pvt. Ltd. (CIN: U58200WB2024PTC274494) and having TM Register application no: 6655599. Unauthorized reproduction or distribution of this document is prohibited.

Risk Acknowledgment

Cryptocurrency and blockchain technology involve significant risks including but not limited to market volatility, regulatory changes, technological failures, security vulnerabilities, and loss of principal. Users should only allocate funds they can afford to lose and should thoroughly understand the technology before participating.

1. EXECUTIVE SUMMARY

1.1 Introduction

VTCN (Versatize Coin) represents a paradigm shift in blockchain technology, serving as the native cryptocurrency of BC Hyper Chain—India's first indigenous Layer-1 blockchain platform. Developed by PN Software Tech Pvt. Ltd. under the visionary leadership of CEO Mr. Prosanta Nag, VTCN combines cutting-edge technology with regulatory compliance to deliver a secure, scalable, and sustainable digital asset ecosystem.

BC Hyper Chain officially launched its mainnet on April 18, 2025, marking a historic milestone in India's blockchain journey. The platform operates with Chain ID 3030 on mainnet and Chain ID 6060 on testnet, providing developers and users with robust infrastructure for decentralized applications, token utilities, and cross-chain integrations.

1.2 Key Highlights

Metric	Details
Native Token	VTCN (Versatize Coin)
Total Supply	100,000,000 VTCN (Fixed)
Blockchain	BC Hyper Chain (Layer-1)
Consensus Mechanism	Proof of Stake Authority (PoSA)
Block Time	3 seconds
Current TPS	1,200+ transactions per second
EVM Compatibility	Full Ethereum Virtual Machine support
Mainnet Launch	April 18, 2025
Exchange Listings	AscendEx, Coinstore, BTCC, DEX Trade and others
Multi-Chain Reach	wVTCN on 20 blockchains, 50+ DEXs

1.3 Value Proposition

VTCN and BC Hyper Chain deliver compelling value across multiple dimensions:

- Regulatory Leadership: First IND registered blockchain ecosystem ensuring compliance and institutional trust
- Technical Excellence: Sub-3-second finality, 1200+ TPS, and full EVM compatibility

- Ecosystem Completeness: Native DEX (BC Swap), cross-chain bridge, staking, and developer tools
- Global Accessibility: Multi-chain wrapped tokens (wVTCN) across 20+ blockchain networks
- Sustainable Economics: Balanced tokenomics with staking rewards up to 5% RPR
- Indian Innovation: Designed for emerging markets with 100M+ potential users

1.4 Strategic Milestones (January 2026)

Date	Milestone
January 12, 2026	AscendEx Exchange Listing
January 14, 2026	Coinstore Exchange Listing
January 15-20, 2026	CoinMarketCap & CoinGecko Listing
January 21, 2026	BTCC Exchange Listing
January 28, 2026	DEX Trade Exchange Listing
Q1 2026	wVTCN Tier 1 Deployment (ETH, BSC, SOL, ARB, BASE)
Q2 2026	Cross-Chain Bridge V1 Launch + 15 DEX Listings

2. VISION & MISSION

2.1 Our Vision

To establish BC Hyper Chain and VTCN as the premier decentralized financial infrastructure for emerging markets, empowering 1 billion users by 2035 with accessible, secure, and compliant blockchain technology. We envision a world where financial inclusion is universal, where individuals maintain sovereign control over their digital assets, and innovation flourishes within responsible regulatory frameworks.

2.2 Our Mission

Our mission is to build and operate a high-performance, regulation-compliant blockchain ecosystem that:

- Democratizes access to decentralized financial services
- Provides institutional-grade security with consumer-friendly interfaces
- Maintains proactive regulatory compliance across jurisdictions
- Enables seamless cross-chain interoperability

- Supports developers with comprehensive tools and documentation
- Creates sustainable economic value for all stakeholders

2.3 Core Principles

Security First

Every component of BC Hyper Chain is designed with security as the primary consideration. From self-custody wallets to multi-signature governance, we implement defence-in-depth strategies to protect user assets and network integrity.

Transparency

All transactions, governance decisions, and protocol changes are recorded on-chain and verifiable through BCHscan.io. We believe transparency builds trust and enables informed participation.

Compliance

As an IND registered entity, we maintain rigorous AML/KYC frameworks, transaction monitoring systems, and reporting mechanisms. Compliance is not an obstacle—it is our competitive advantage.

Scalability

BC Hyper Chain is engineered for growth. With current throughput 1,200+ TPS, we are prepared to support mass adoption without compromising performance or decentralization.

Inclusivity

We design for accessibility. Our mobile-first approach, multi-language support, and user-friendly interfaces ensure that blockchain technology is available to everyone, regardless of technical expertise.

3. PROBLEM STATEMENT

3.1 The Global Challenge

The current financial system exhibits fundamental limitations that disproportionately affect emerging markets and underserved populations. Despite the promise of blockchain technology, several critical barriers prevent mainstream adoption:

3.1.1 Fragmented Liquidity

- Users face 2-5% higher costs due to fragmented liquidity across platforms
- Complex multi-step processes required for cross-chain transactions
- Increased gas fees and bridge risks create friction

- No unified solution for multi-chain asset management

3.1.2 Centralized Exchange Vulnerabilities

- The FTX collapse resulted in $8B+ in customer losses
- Regulatory shutdowns create sudden access restrictions
- Privacy breaches expose sensitive user data
- Censorship risks in politically unstable regions
- Single points of failure compromise entire platforms

3.1.3 User Experience Barriers

- Complex wallet setup processes deter new users
- Confusing gas fee mechanisms across networks
- Limited mobile-first solutions for emerging markets
- Lack of integrated portfolio management tools
- Poor onboarding experiences for non-technical users

3.1.4 Emerging Market Limitations

- Banking restrictions limit traditional crypto on-ramps
- Regulatory uncertainty creates investment hesitancy
- High network costs on legacy chains (ETH gas fees)
- Language barriers in technical documentation
- Limited local currency support

3.2 The Indian Context

India represents one of the world's largest potential cryptocurrency markets with over 100 million crypto users. However, the ecosystem faces unique challenges:

- No indigenous Layer-1 blockchain infrastructure
- Regulatory framework still evolving (30% crypto tax, 1% TDS)
- Dependence on foreign blockchain platforms
- Limited institutional participation due to compliance concerns
- Brain drains of blockchain talent to other jurisdictions

3.3 Market Opportunity

These challenges represent a significant market opportunity for a compliant, Indian origin blockchain platform. BC Hyper Chain is positioned to capture this opportunity by providing:

- Native Layer-1 infrastructure with IND registration
- Institutional-grade compliance framework
- Cost-effective transactions (< $0.01 per transaction)
- Full ecosystem of DeFi tools and applications
- Clear regulatory positioning for enterprise adoption

4. THE BC HYPER CHAIN SOLUTION

4.1 Platform Overview

BC Hyper Chain is a high-performance, EVM-compatible Layer-1 blockchain designed to address the limitations of existing platforms while maintaining regulatory compliance. The network combines the security of Proof of Stake with the efficiency of Authority-based block production, delivering a hybrid consensus mechanism optimized for real-world applications.

4.2 Key Platform Features

4.2.1 Token Swap Engine

- Automated Market Maker (AMM) pools with optimized routing
- Real-time price preview and slippage controls
- MEV protection mechanisms
- Support for 100+ tokens with instant swap execution
- 0.3% trading fee with LP incentives

4.2.2 Cross-Chain Bridge

- Native BCH ↔ BSC, ETH, POL, TRX bridge (Live)
- Planned expansions: ARB, SOL, BASE
- Multi-signature validator security (3-of-5 required)
- Lock-and-mint / burn-and-release mechanisms
- Distributed validator nodes with periodic rotation

4.2.3 Staking & Rewards

- Flexible lock periods: 180, 365, and 720 days
- Reward Per Ratio (RPR) up to 5% annually
- Transparent on-chain reward tracking
- Auto-compounding options available
- Delegated staking for non-technical users

4.2.4 Self-Custody Wallet

- Non-custodial design—users maintain exclusive key control
- Create new or import existing wallets (12/24-word mnemonic)
- Biometric security (fingerprint, face recognition)
- Multi-network support: BCH, BSC, ETH, POL, TRX, SOL
- Comprehensive transaction history and portfolio tracking

4.3 Why Blockchain Technology?

The fundamental advantages of blockchain technology make it essential for the next generation of financial infrastructure:

- Thrustless Execution: Smart contracts execute automatically without intermediaries
- Self-Sovereignty: Users maintain complete control of their assets
- Censorship Resistance: No single entity can block or reverse transactions
- Transparency: All transactions are publicly verifiable
- Programmability: Complex financial logic can be encoded and automated

5. TECHNICAL ARCHITECTURE

5.1 Architecture Overview

BC Hyper Chain implements a three-layer architecture designed for performance, security, and developer accessibility:

Layer 1: User Interface

- BC Swap mobile application (Android, iOS planned)
- Web-based trading interface
- Developer API endpoints
- BCHscan.io block explorer

Layer 2: Smart Contracts

- BCSwapRouter: Main swap entry point with optimal routing
- BCSwapFactory: Deploys and manages liquidity pool pairs
- BCSwapPair: Individual AMM pools using constant product formula
- StakingContract: VTCN staking with configurable lock periods
- BridgeContract: Cross-chain transfers with multi-sig validation

Layer 3: Blockchain Infrastructure

- BC Hyper Chain PoSA consensus
- Distributed validator network
- RPC endpoints for application connectivity
- Archive nodes for historical state access

5.2 Node Types

Node Type	Function	Requirements
Validator Node	Block production, consensus participation	Minimum stake, 99.9% uptime
RPC Node	API endpoints, transaction relay	High availability, load balancing
Archive Node	Full historical state, powers explorer	Large storage capacity

5.3 Smart Contract Architecture

Contract	Description
BCSwapRouter	Main entry point for all swap operations. Implements optimal routing algorithms to find the best execution path across available liquidity pools.
BCSwapFactory	Factory contract that deploys and manages liquidity pool pairs. Maintains registry of all active pools and their configurations.
BCSwapPair	Individual AMM pool implementing the constant product formula (x × y = k). Handles token swaps, liquidity provision, and fee distribution.
StakingContract	Manages VTCN staking operations including deposits, withdrawals, reward calculations, and lock period enforcement.
BridgeContract	Facilitates cross-chain asset transfers using lock-and-mint mechanisms with multi-signature validator verification.

5.4 Network Configuration

Parameter	Mainnet Value
Network Name	BC Hyper Chain Mainnet
Chain ID	3030
Currency Symbol	VTCN
RPC URL	https://mainapi.bchscan.io

Block Explorer	https://bchscan.io
Block Time	3 seconds
EVM Version	London (EIP-1559 compatible)
Gas Token	VTCN

Parameter	Testnet Value
Network Name	BC Hyper Chain Testnet
Chain ID	6060
RPC URL	https://rpc.bchscan.io
Purpose	Development and testing

6. CONSENSUS MECHANISM

6.1 Proof of Stake Authority (PoSA)

BC Hyper Chain implements a hybrid consensus mechanism called Proof of Stake Authority (PoSA), which combines the energy efficiency of Proof of Stake with the performance characteristics of Proof of Authority. This design delivers fast finality, low energy consumption, and robust security.

6.2 How PoSA Works

Step 1: Validator Selection

At the start of each epoch (200 blocks, approximately 10 minutes), the protocol selects active validators based on their staked VTCN holdings. Validators with larger stakes have proportionally higher probability of selection.

Step 2: Turn Assignment

Selected validators are assigned block production turns in a round-robin fashion, with stake-weighted probability influencing turn order. This ensures fair distribution while rewarding larger stakes.

Step 3: Block Proposal

The assigned validator proposes a new block containing pending transactions, the previous block hash, and validator signature.

Step 4: Validation

Other validators verify the proposed block and provide attestations. A block requires 2/3+ validator signatures to be considered valid.

Step 5: Finalization

Once sufficient attestations are received, the block is finalized and becomes irreversible. Under normal conditions, finality is achieved within a single block (~3 seconds).

6.3 Performance Metrics

Metric	Value
Block Time	3 seconds
Current TPS	1,200+ transactions per second
TPS Proof	https://testnet.bchscan.io/block/1205712
Finality Time	~3 seconds (single block)
Epoch Length	200 blocks (~10 minutes)
Average Gas Cost	< $0.01 per transaction

6.4 Validator Economics

Rewards

- Block Rewards: New VTCN minted per block
- Transaction Fees: Share of all gas fees
- Delegation Commissions: Percentage of delegator rewards

Requirements

- Minimum Stake: Required VTCN collateral
- Hardware: Enterprise-grade servers with redundancy
- Uptime: 99.9% availability requirement
- Security: HSM recommendations for key management

6.5 Slashing Conditions

Violation	Penalty	Additional Consequence
Double Signing	5% stake slash	Immediate jailing
Extended Downtime	1% stake slash	Temporary removal
Censorship	10% stake slash	Permanent ban
Malicious Behaviour	Up to 100% slash	Legal action possible

7. VTCN TOKENOMICS

7.1 Token Overview

Attribute	Value
Token Name	Versatize Coin
Token Symbol	VTCN
Total Supply	100,000,000 (100 Million)
Decimal Places	18
Token Type	Native Coin + ERC-20 Compatible
Chain ID	3030 (BC Hyper Chain Mainnet)
Contract Standard	EVM Compatible

7.2 Token Distribution

Category	Allocation	Tokens	Purpose
Public Cell	50%	50,000,000 VTCN	Public token sale allocation
Private Cell	15%	15,000,000 VTCN	Private sale allocation
Reserved	20%	20,000,000 VTCN	Reserved for future use
Angel	10%	10,000,000 VTCN	Angel investors allocation
Management	2%	2,000,000 VTCN	Management team allocation
R&D	2%	2,000,000 VTCN	Research & Development
Validator	1%	1,000,000 VTCN	Validator rewards

🛡️ **Tokenomics Philosophy**

Design Principles

🎯 **Balanced Growth** — Fair distribution across stakeholders ensures healthy ecosystem development

🔐 **Long-term Sustainability** — Vesting schedules prevent market dumps and promote stability

💡 **Innovation Funding** — Dedicated R&D allocation supports continuous development

🤝 **Community First** — 50% public allocation demonstrates commitment to decentralization

⚡ **Network Security** — Validator rewards incentivize network participation and security

7.3 Token Utility

VTCN serves multiple critical functions within the BC Hyper Chain ecosystem:

Transaction Fees (Gas)

VTCN is the native gas token for all BC Hyper Chain operations. Every transaction, smart contract execution, and token transfer requires VTCN for gas fees.

Staking & Validation

Validators must stake VTCN to participate in consensus and earn block rewards. Token holders can stake VTCN for periods of 180, 365, or 720 days to earn rewards up to 5% RPR.

Governance

Staked VTCN holders gain voting rights proportional to their stake. One staked VTCN equals one vote on protocol proposals, parameter changes, and treasury allocations.

Ecosystem Participation

VTCN is required for liquidity provision on BC Swap, bridge collateral for cross-chain transfers, and participation in ecosystem incentive programs.

7.4 Inflation & Deflation Mechanics

Inflationary Mechanisms

- Block Rewards: ~5% initial annual inflation for staking rewards
- Ecosystem Incentives: Controlled release for growth initiatives

Deflationary Mechanisms

- Transaction Fee Burns: Portion of gas fees permanently destroyed
- Bridge Fee Burns: Percentage of cross-chain transfer fees burned

- Buyback Programs: Treasury-funded token purchases and burns

Net Economic Model

Target: Net-neutral to deflationary as network scales. As transaction volume increases, fee burns will offset staking inflation, creating sustainable tokenomics.

8. STAKING MECHANISM

8.1 Staking Overview

VTCN staking provides token holders with passive income opportunities while contributing to network security. The staking mechanism is designed to reward long-term commitment with higher returns.

8.2 Staking Tiers

Lock Period	RPR (Annual)	Early Withdrawal	Use Case
180 Days	Up to 3%	Penalty applies	Short-term commitment
365 Days	Up to 4%	Penalty applies	Medium-term holding
720 Days	Up to 5%	Penalty applies	Long-term believers

RPR (Reward Per Ratio) represents the annualized yield on staked tokens. Actual returns may vary based on network participation and protocol parameters.

8.3 Staking Process

1. Connect wallet to BC Swap or supported interface
2. Navigate to Staking section
3. Select desired lock period (180, 365, or 720 days)
4. Enter VTCN amount to stake
5. Confirm transaction and pay gas fees
6. Rewards accrue automatically and can be viewed in real-time
7. After lock period, principal + rewards can be withdrawn

8.4 Delegated Staking

Users who do not wish to run validator infrastructure can delegate their VTCN to existing validators. Delegators receive a share of validator rewards proportional to their delegation, minus a commission fee set by the validator.

Benefits of Delegation

- No technical requirements or hardware costs
- Lower minimum staking amounts
- Automatic reward distribution
- Flexibility to redelegate to different validators

8.5 Unstaking & Withdrawals

Upon lock period completion, staked tokens enter an unbonding period before becoming fully liquid. This mechanism ensures network stability and prevents sudden liquidity shocks.

- Unbonding Period: 7 days after lock expiry
- Early Withdrawal: Subject to penalty (varies by remaining lock time)
- Reward Claims: Can be claimed at any time without affecting principal

9. ECOSYSTEM OVERVIEW

9.1 BC Swap - Decentralized Exchange

BC Swap is the native decentralized exchange (DEX) for BC Hyper Chain, providing users with non-custodial trading capabilities, liquidity provision opportunities, and seamless token swaps.

Key Features

- AMM-based instant token swaps
- Liquidity pools with 0.3% trading fees
- Slippage protection and price impact warnings
- Mainnet/Testnet toggle for developers
- Mobile app available on Google Play Store

Supported Networks

- BC Hyper Chain (Native)
- BNB Smart Chain
- Ethereum
- Polygon
- TRON
- Solana (Coming Soon)

9.2 BC Swap Wallet

The BC Swap Wallet is a self-custody mobile wallet designed for secure asset management across multiple blockchain networks.

Security Features

- Non-custodial design—private keys never leave your device
- BIP-39/BIP-44 compliant HD wallet derivation
- AES-256 encrypted keystore
- Biometric authentication (fingerprint, face recognition)
- 12/24-word mnemonic backup

Wallet Capabilities

- Multi-chain asset management
- Built-in DEX integration
- Portfolio tracking and analytics
- Transaction history with export options
- Native staking interface

9.3 Cross-Chain Bridge

The BC Hyper Chain Bridge enables seamless asset transfers between BC Hyper Chain and other blockchain networks using secure lock-and-mint mechanisms.

Bridge Architecture

- Lock-and-Mint: Lock tokens on source chain, mint wrapped tokens on destination
- Burn-and-Release: Burn wrapped tokens, release original tokens
- Multi-Sig Security: Requires 3-of-5 validator signatures
- Distributed Validators: Geographically distributed with periodic key rotation

Supported Bridges (Current & Planned)

Route	Status	Launch Date
BCH ↔ BSC	Live	Available Now
BCH ↔ ETH	Live	Available Now
BCH ↔ Polygon	Live	Available Now
BCH ↔ TRX	Live	Available Now
BCH ↔ Arbitrum	Planned	Q3 2026
BCH ↔ Solana	Research	Q4 2026

9.4 BC Utility App

BC Utility (com.pnSoftware.bcutils) provides advanced network tools for developers and power users, including RPC management, contract interactions, and network diagnostics.

9.5 Future Ecosystem Components

Component	Description
BCH20USDT Stablecoin	Multi-asset backed stablecoin with PLC investor structure
NFT Marketplace	Native NFT creation, trading, and royalty management
BC OTT Platform	Decentralized streaming with token-gated content
BC Gaming	Play-to-earn games with VTCN integration
Forensic Platform	Blockchain analytics and compliance tools

10. MULTI-CHAIN STRATEGY (wVTCN)

10.1 Wrapped VTCN Overview

wVTCN (Wrapped Versatize Coin) is a multi-chain representation of native VTCN, enabling global DeFi accessibility while maintaining the security and compliance of the native token. The wrapped token strategy targets deployment across 20 blockchain networks and 50+ decentralized exchanges.

10.2 Deployment Strategy

The wVTCN deployment follows a tiered approach based on Total Value Locked (TVL) and strategic importance:

Tier 1: High Priority Networks ($130B+ TVL)

Network	TVL	Priority
Ethereum	$50B+	Critical
BNB Smart Chain	$5B+	Critical
Solana	$4B+	High
TRON	$8B+	High
Arbitrum	$3B+	High
Base	$2B+	High
Polygon	$1B+	High

Tier 2: Growth Networks ($15B+ Combined TVL)

- Avalanche
- Optimism
- Fantom
- zkSync Era
- Linea
- Mantle

Tier 3: Emerging Networks

- Gnosis Chain
- Cronos
- Celo
- Moonbeam

- Scroll
- Metis
- Kava

10.3 DEX Integration Plan

wVTCN will be listed on 50+ decentralized exchanges across all target networks. The cost-effective nature of DEX listings (gas fees only) enables broad market penetration.

Target DEXs by Network

Network	Target DEXs
Ethereum	Uniswap V3, SushiSwap, Curve, Balancer
BNB Smart Chain	PancakeSwap, BiSwap, DODO
Solana	Raydium, Orca, Jupiter
Arbitrum	Camelot, GMX, Trader Joe
Polygon	QuickSwap, SushiSwap, Balancer
Base	Aerodrome, BaseSwap, Alien Base

10.4 wVTCN Technical Implementation

- Token Standard: ERC-20 compatible on EVM chains, native standards on non-EVM
- Backing: 1:1 backed by locked VTCN on BC Hyper Chain
- Minting: Controlled by audited bridge contracts
- Redemption: Instant burn-and-release mechanism
- Audits: Security audits for each deployment

10.5 Benefits of Multi-Chain Presence

- Global DeFi Access: Participate in lending, borrowing, and yield farming across ecosystems
- Arbitrage Opportunities: Price efficiency across markets
- Liquidity Depth: Aggregate liquidity from multiple venues
- User Choice: Access VTCN on preferred network
- Ecosystem Growth: Exposure to diverse user bases

11. EXCHANGE & MARKET STRATEGY

11.1 Centralized Exchange Strategy

VTCN has secured confirmed listings on multiple centralized exchanges, providing institutional-grade trading infrastructure, fiat on-ramps, and global market access.

Confirmed CEX Listings (January 2026)

Exchange	Launch Date	Market Access
AscendEx	January 12, 2026	Global
Coinstore	January 14, 2026	Asia-Pacific Focus
BTCC	January 21, 2026	Derivatives & Spot
DEX Trade	January 28, 2026	Americas & Europe

Trading View Integration

Upon exchange listings, VTCN price feeds will be available on Trading View across all 6 CEXs, providing professional charting, technical analysis tools, and global visibility to millions of traders.

11.2 Price Tracking Platforms

Platform	Timeline
CoinMarketCap	January 15-20, 2026
CoinGecko	January 15-20, 2026
Trading View	Post-CEX Listing
Coin Paprika	Q1 2026
DeFiLlama	Q1 2026 (DEX TVL Tracking)

11.3 Market Making Strategy

Professional market making ensures liquidity depth, tight spreads, and efficient price discovery across all trading venues.

- Exchange-Provided MM: Zero-fee trading accounts on partner exchanges
- Algorithmic Trading: Automated market making using sophisticated algorithms
- Cross-Exchange Arbitrage: Maintaining price consistency across venues
- Inventory Management: Balanced holdings to support both buy and sell sides

11.4 Media & PR Coverage

BC Hyper Chain has achieved significant media visibility through strategic press release distribution:

Metric	Value
Potential Audience Reach	634.8M+
Total Publishers	216
Major Outlets	Google News, Yahoo News, Business Wire
Indian Media Coverage	Economic Times, Business Standard, Mint
Crypto-Specific Coverage	Coin Telegraph, Decrypt, The Block

12. SECURITY MODEL

12.1 Security Philosophy

Security is not a feature—it is the foundation. BC Hyper Chain implements defence-in-depth strategies across every layer of the technology stack, from smart contracts to infrastructure to user interfaces.

12.2 Threat Model & Mitigations

Threat Vector	Risk Level	Mitigation Strategy
Validator Collusion	Medium	BFT consensus requiring >66% honest validators, slashing penalties
Smart Contract Exploits	High	Third-party audits, bug bounty program, upgrade mechanisms
Bridge Compromise	High	Multi-sig (3-of-5), distributed validators, key rotation
User Key Theft	Medium	Device-only storage, encryption, biometric authentication
51% Attack	Low	High staking requirements, slashing, economic disincentives
DDoS Attacks	Medium	Distributed infrastructure, rate limiting, CDN protection

12.3 Smart Contract Security

Audit Program

- Pre-Launch Audit: Comprehensive security review before mainnet
- Certik Engagement: Planning full L1 chain audit ($300K+ budget)
- Continuous Monitoring: Real-time contract behaviour analysis
- Upgrade Procedures: Timeclock-protected contract upgrades

Bug Bounty Program

- Critical Vulnerabilities: Up to $100,000 reward
- High Severity: Up to $50,000 reward
- Medium Severity: Up to $10,000 reward
- Low Severity: Up to $1,000 reward

12.4 Infrastructure Security

- Multi-Region Deployment: Validators distributed across geographic regions
- Hot Standby Systems: Automatic failover for critical services
- 24/7 Monitoring: Network Operations Centre with alerting
- Incident Response: Documented procedures for security events
- Regular Penetration Testing: External security assessments

12.5 Key Management

User Keys

- Device-only storage—keys never transmitted to servers
- AES-256 encryption at rest
- Biometric authentication required for transactions
- Secure mnemonic backup procedures

Administrative Keys

- 3-of-5 multi-signature governance
- Hardware Security Module (HSM) storage
- Geographically distributed key holders
- Regular key rotation procedures

Bridge Validator Keys

- Distributed across independent operators
- Periodic rotation (quarterly minimum)
- Emergency revocation procedures

13. GOVERNANCE FRAMEWORK

13.1 Governance Overview

BC Hyper Chain implements progressive decentralization, transitioning from core team governance to full community control through a structured DAO implementation.

13.2 Current Governance Model (Phase 1)

During the current phase, governance operates with core team leadership and community input:

- Core Team: Technical decisions, security responses, protocol upgrades
- Community Input: Feedback through official channels, voting on non-critical proposals
- Transparency: All major decisions documented and communicated

13.3 On-Chain Governance (Phase 2 - 2026)

Voting Rights

- Eligibility: Staked VTCN holders
- Voting Power: 1 staked VTCN = 1 vote
- Delegation: Supported for non-participating holders
- Quorum: Minimum participation threshold for valid votes

Proposal Process

8. Discussion Phase: 7+ days of community discussion
9. Formal Proposal: Stake deposit required to submit
10. Voting Period: 5-14 days depending on proposal type
11. Execution: Automatic execution after time lock period

13.4 Full DAO (Phase 3 - 2027+)

The goal is fully autonomous governance:

- Treasury Control: Community-directed fund allocation
- Protocol Parameters: Community voting on all network parameters
- Upgrade Authority: Community approval for all protocol changes
- Emergency Powers: Limited Security Council for critical vulnerabilities

13.5 Governance Proposal Types

Proposal Type	Quorum	Approval Threshold
Parameter Change	10%	50% + 1
Treasury Allocation	15%	60%
Protocol Upgrade	20%	66%
Emergency Action	5%	75% (Security Council)

14. DEVELOPMENT ROADMAP

Phase 1: Foundation (2020-2025) ☑ COMPLETED

- Research & development of BC Hyper Chain architecture
- Testnet launch (Chain ID 6060)
- Mainnet genesis block (April 18, 2025)
- BC Swap DEX launch
- Android wallet release
- Initial ecosystem partnerships

Phase 2: Consolidation (2026-2027) 🔄 IN PROGRESS

Q1 2026

- CEX listings: AscendEx, Coinstore, BTCC, DEX Trade and others
- CoinMarketCap & CoinGecko listing
- wVTCN Tier 1 deployment (ETH, BSC, SOL, ARB, BASE)
- Enhanced AML monitoring system
- Infrastructure resilience upgrades

Q2 2026

- Cross-Chain Bridge V1 launch
- 15+ DEX listings across networks
- Travel rule implementation
- iOS wallet release
- On-chain governance Phase 2

Q3 2026

- Singapore DPT license application
- wVTCN Tier 2 & 3 deployment

- Native stablecoin (BC-COIN) launch
- NFT marketplace beta
- TPS optimization to 1,200+

Q4 2027

- MiCA Certification (EU)
- Full DAO transition
- L2 scaling solutions
- Enterprise partnerships

Phase 3: Expansion (2027-2028)

- BC OTT & Gaming platform launch
- AI research integration
- New blockchain initiatives
- Forensic platform for enterprises
- International regulatory expansion

Phase 4: Future Technology (2028-2029+)

- VTCN University (education & certification)
- Native Web3 browser
- ENS + VPA resolver integration
- Wallet v2.0 with advanced features
- Quantum-resistant cryptography research
- Interoperability protocol development

15. TEAM & ORGANIZATION

15.1 Leadership

Mr. Prosanta Nag - CEO & Founder

Visionary leader driving the strategic direction of BC Hyper Chain. Mr. Nag brings extensive experience in technology entrepreneurship and blockchain innovation to lead the company's mission of democratizing decentralized finance in India and emerging markets.

15.2 Operating Companies

PN Software Tech Pvt. Ltd.

Attribute	Details
CIN	U58200WB2024PTC274494
Registration	ROC-Kolkata, West Bengal, India
Role	Primary technology development and operations
Divisions	PN Software Tech (R&D), PN Compliance, PN Explore

15.3 Organizational Structure

PN Software Tech - Innovation & R&D

- Core blockchain development
- Smart contract engineering
- Protocol research
- Security auditing

PN Compliance - Regulation & Risk

- Regulatory engagement
- Legal compliance
- Risk management
- AML/KYC operations

PN Explore - Marketing & Growth

- Brand development
- Community management
- Partnership development
- Market expansion

15.4 Advisory & Partnerships

BC Hyper Chain maintains relationships with legal advisors, security consultants, and industry partners to ensure best practices across all operations. Specific advisor details are available upon request for qualified institutional inquiries.

16. RISK FACTORS

Prospective participants should carefully consider the following risk factors before engaging with BC Hyper Chain or VTCN:

16.1 Technical Risks

- Smart Contract Vulnerabilities: Despite audits, undiscovered bugs may exist
- Bridge Security: Cross-chain bridges are high-value attack targets
- Infrastructure Failures: Network outages could affect service availability
- Key Management: User error in key management results in permanent loss
- Scaling Challenges: Rapid growth may strain infrastructure

16.2 Regulatory Risks

- Regulatory Changes: Cryptocurrency regulations may become more restrictive
- Licensing Requirements: New jurisdictions may require additional compliance
- Tax Treatment: Adverse changes in tax policy could impact returns
- Enforcement Actions: Regulatory bodies may take unexpected actions

16.3 Market Risks

- Price Volatility: VTCN may experience significant price fluctuations
- Liquidity Risk: Trading volumes may be insufficient in certain markets
- Competition: Established platforms may have competitive advantages
- Market Adoption: Adoption rates may be slower than projected

16.4 Operational Risks

- Team Dependency: Key personnel departures could impact operations
- Third-Party Risk: Reliance on external service providers
- Scaling Challenges: Rapid growth may strain organizational capacity
- Cybersecurity: External attacks on infrastructure or personnel

16.5 Risk Mitigation

BC Hyper Chain actively mitigates these risks through:

- Comprehensive insurance coverage where available
- Regular security audits and penetration testing
- Proactive regulatory engagement
- Diversified team and succession planning
- Conservative treasury management
- Transparent communication with stakeholders

17. CONCLUSION

17.1 Summary

VTCN and BC Hyper Chain represent a significant advancement in blockchain technology, combining technical excellence with regulatory compliance to create India's first native Layer-1 ecosystem. With mainnet operational since April 2025, multiple exchange listings confirmed for January 2026, and a comprehensive multi-chain expansion strategy, the platform is positioned for substantial growth.

17.2 Key Differentiators

- First IND registered blockchain ecosystem in India
- Complete DeFi infrastructure: DEX, wallet, bridge, staking
- High performance: 3-second blocks, 1200+ TPS, < $0.01 transactions
- Global reach: wVTCN on 20 blockchains, 50+ DEXs
- Institutional credibility: 6 CEX listings, CMC/CoinGecko visibility

17.3 Call to Action

We invite developers, investors, partners, and users to join us in building the future of decentralized finance:

- Developers: Build on BC Hyper Chain using our comprehensive documentation
- Token Holders: Stake VTCN to earn rewards and participate in governance
- Partners: Explore integration opportunities and ecosystem collaboration
- Institutions: Contact us for compliance documentation and partnership discussions

17.4 Vision Forward

As we enter 2026, BC Hyper Chain stands at the threshold of exponential growth. With confirmed exchange listings, price tracker visibility, and a clear roadmap for multi-chain expansion, VTCN is positioned to become a cornerstone of India's digital economy and a bridge to global DeFi markets.

Together, we are building more than a blockchain—we are creating the infrastructure for a more inclusive, transparent, and efficient financial future.

A. APPENDIX: TECHNICAL SPECIFICATIONS

A.1 Network Parameters

Parameter	Value
Network Name	BC Hyper Chain Mainnet
Chain ID	3030
Currency Symbol	VTCN
Currency Decimals	18
RPC URL	https://mainnetrpc.bchscan.io
WebSocket URL	wss://mainnetrpc.bchscan.io/ws
Block Explorer	https://bchscan.io
Block Time	3 seconds
Block Gas Limit	30,000,000
EVM Version	London
EIP-1559	Supported
Consensus	PoSA (Proof of Stake Authority)

A.2 AMM Formula

BC Swap uses the constant product AMM formula:

$$x \times y = k$$

Where x and y are the reserve balances of two tokens in a pool, and k is a constant. This formula ensures that the product of reserves remains constant after each trade, determining prices algorithmically.

A.3 Fee Structure

Fee Type	Amount	Distribution
Swap Fee	0.3%	0.25% to LPs, 0.05% to treasury
Bridge Fee	Variable	Covers gas + validator rewards
Staking Withdrawal	0%	No fees after lock period
Gas Fee	< $0.01	Paid in VTCN

A.4 API Endpoints

Endpoint	URL
Mainnet RPC	https://mainapi.bchscan.io
Testnet RPC	https://rpc.bchscan.io
API Documentation	https://docs.bchscan.io
Block Explorer API	https://bchscan.io/api

B. APPENDIX: GLOSSARY

Term	Definition
AMM	Automated Market Maker - algorithm enabling automatic token trading through liquidity pools
Bridge	Protocol enabling asset transfers between different blockchain networks
DApp	Decentralized Application running on blockchain smart contracts
DEX	Decentralized Exchange - non-custodial trading platform
EVM	Ethereum Virtual Machine - runtime environment for smart contracts
Gas	Fee paid for blockchain transaction execution
LP	Liquidity Provider - user who deposits tokens into trading pools
MEV	Maximal Extractable Value - profit from transaction ordering
PoS	Proof of Stake - consensus mechanism using staked tokens
PoSA	Proof of Stake Authority - hybrid PoS + PoA consensus
RPR	Reward Per Ratio - annual yield rate for staking
Self-Custody	User maintains exclusive control of private keys
Slashing	Penalty mechanism reducing validator stake for misbehaviour
Slippage	Difference between expected and executed trade price

TPS	Transactions Per Second - network throughput measure
TVL	Total Value Locked - assets deposited in protocol
VTCN	Versatize Coin - native token of BC Hyper Chain
wVTCN	Wrapped VTCN - token represented on other chains

C. APPENDIX: REFERENCES & RESOURCES

C.1 Official Resources

Resource	URL
Token Website	https://versatizecoin.com
BC Swap Platform	https://bcswap.org
Block Explorer	https://bchscan.io
API Documentation	https://docs.bchscan.io
Company Website	https://pnsoftware.org

C.2 Community Channels

Platform	Link
Telegram	https://t.me/bchyper
X (Twitter)	https://x.com/versatizecoin
YouTube	https://youtube.com/@bchyperchain
Discord	https://discord.gg/bchyperchain
Instagram	https://instagram.com/bchyperchain
Facebook	https://facebook.com/bchyperchain

C.3 App Downloads

Application	Link
BC Swap (Android)	https://play.google.com/store/apps/details?id=com.pnsoftware.uniswap
BC Utility (Android)	https://play.google.com/store/apps/details?id=com.pnSoftware.bcutils

C.4 Contact Information

Type	Contact
General Inquiries	contact@pnsoftware.org
Technical Support	it@pnsoftware.org

🚀 Conclusion

Versatize Coin represents more than a cryptocurrency—it embodies a vision for accessible, secure, and sustainable digital finance. Through the BC Hyper Chain infrastructure, innovative tokenomics, and a comprehensive ecosystem of services, VTCN is positioned to drive meaningful adoption of blockchain technology.

Our commitment to compliance, security, and user experience differentiates VTCN in a crowded market. As we execute on our roadmap, we invite developers, investors, and users to join us in building the future of decentralized finance.

"Decentralized. Digital. Made in India. IN"

Thank You for Reading the
VTCN Whitepaper v2.0

Designed for a scalable ⚡, sustainable 🔧, and secure 🔗 decentralized future.

🌐 **www.versatizecoin.com** | 🌐 **www.bchscan.io** | 🌐 **www.bcswap.org**

🔗 Built on Proof of Stake | Empowering Web3 & DeFi