BHUMI DEFENSE

Investor Pitch Brief - April 2026

Autonomous FPV Drone Systems | Made in India | Defense Tech Startup

1. WHO WE ARE

Bhumi Defense Technologies is an early-stage Indian defense technology company building autonomous (FPV First Person View) drone systems for modern warfare. We design, engineer, and manufacture tactical drone platforms powered entirely by our in-house software stack, BHUMI OS.

We are not a reseller. We are not an assembler of Chinese parts. We are a ground-up engineering company building India's own sovereign capability in the autonomous drone space - the fastest-growing and most consequential segment of modern military technology.

We are based in India. Our team spans drone engineering, avionics, AI software, field operations, and business development. We launched in 2026 with three operational drone platform categories and a clear roadmap toward becoming a trusted indigenous supplier to the Indian armed forces and allied nations.

2. THE WORLD HAS CHANGED. WAR HAS CHANGED.

The Russia-Ukraine conflict, which began in 2022 and continues today, has permanently redefined what modern warfare looks like. For the first time in history, small, inexpensive, autonomous drones - not fighter jets, not missiles, not tanks - are the decisive weapon on the battlefield.

The numbers are not theoretical. They are documented and verified:

From the Russia-Ukraine War 2023 2026

- **FPV drones account for 60% of all Russian army losses in Ukraine.**

- In November 2025 alone, Ukrainian drone units destroyed or damaged 81,500 targets.
- As of January 2026, Ukrainian President Zelensky confirmed that drones now account for over 80% of Russian casualties, with 22,770 drone strikes per month hitting Russian personnel.
- Ukraine acquired 1.5 million FPV drones in 2024 and planned to triple that to 4.5 million in 2025. FPV drones are now described as the new "King of Battle," accounting for 60-70% of all destroyed Russian equipment.
- The average cost of an FPV drone is $200 to $1,000. These are not exotic weapons - they are accessible, mass-producible, and lethal.
- In 2024, Russia deployed fiber-optic cable-connected drones immune to electronic warfare in the Kursk region, which proved highly effective and were responsible for pushing Ukrainian forces largely out of the area. This was the first large-scale deployment of fiber-optic FPV drones in any war in history, and it worked.
- By 2025, fiber-optic drones were deployed across the entire frontline by Russia. The technology is now considered a standard battlefield tool, not an experimental one.

From the India-Pakistan Conflict, May 2025

- In May 2025, Pakistan launched approximately 400 armed drones across Punjab, Jammu, and Rajasthan, targeting 26 locations across a 1,700 km stretch from Baramulla to Bhuj. India's air defense neutralized the swarm, but the attack exposed how real and immediate the drone threat is on India's own borders.
- India responded with retaliatory drone strikes in Pakistan-occupied Kashmir. Drones are no longer a future threat for India. They are a present reality.
- In direct response, the Indian government unveiled a $234 million incentive for domestic drone manufacturing, signaling an urgent policy shift toward building sovereign capability.

The lesson from every modern conflict is the same: the side with better, cheaper, more autonomous drones wins. And right now, India does not manufacture enough of them at home.

3. THE PROBLEM WE ARE SOLVING

India faces three critical, interconnected gaps that Bhumi Defense is directly built to address.

Gap 1 Dangerous Import Dependency

India currently imports the vast majority of its advanced drone technology. Indian drone manufacturers continue to rely on global partners for critical components including semiconductors, motors, actuators, communication systems, data links, ground control stations, software, and miniaturized sensors. Some Indian drone companies were banned by the Ministry of Defence for procuring parts from China in violation of ministry guidelines.

This dependency is not just an economic problem. It is a national security vulnerability. If a supplier cuts access - as has happened with semi-conductors globally - Indian forces go without. Bhumi Defense is building with component sovereignty as a design principle, not an after thought.

Gap 2 Electronic Warfare Vulnerability

Most commercial and military-grade drones communicate via radio frequency signals. In a modern contested environment, these signals are actively jammed. Electronic warfare systems can sever the operator's connection to the drone mid-mission, rendering it useless or worse - hijack able. The Russia-Ukraine conflict proved this at scale. Every drone operating on RF in a jammed environment is a compromised drone.

Our Fiber-Optic FPV platform solves this entirely. A physical cable means no RF signal to jam, no frequency to intercept, no operator position to detect. Russia pioneered mass fiber-optic drone deployment during its Kursk campaign, and the results were decisive. India needs this capability built domestically, not imported.

Gap 3 No Accessible Squad-Level Strike Capability

India's current precision strike doctrine depends on air support, heavy logistics, and significant lead time. A small patrol unit on the Line of Control does not have the ability to conduct a precision aerial engagement on its own. This gap costs lives and operational windows. Bhumi Defense's Strike FPV is designed specifically for this: a precision strike asset that a squad can carry, deploy, and operate independently.

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4. THE MARKET OPPORTUNITY

Global Military Drone Market:

The global military drone market was estimated at $47.38 billion in 2025 and is projected to reach $98.24 billion by 2033, growing at a CAGR of 8.9%. This is not speculative growth - it is being driven by active conflicts, rising defense budgets, and a global shift in military doctrine away from expensive platforms toward autonomous, attritable systems.

Global military spending reached a record high in 2025, according to SIPRI, driven by major powers responding to emerging threats and urgency to modernize with AI-driven autonomous systems.

India-Specific Opportunity:

The India drone market is projected to grow from $654 million in 2024 to $1.437 billion by 2029, at a CAGR of 17% - one of the fastest-growing defense drone markets in the world.

India is planning a $470 million UAV investment, plus $4.6 billion in emergency defense procurement, triggered directly by the 2025 conflict with Pakistan.

Funding for drone development in India has soared from $3-4 million in 2015-16 to $108 million in 2024. The pipeline is accelerating.

The Indian government has signaled intent to triple its UAV expenditure to approximately $470 million in the next 12-24 months.

The Policy Tailwind:

India's Defence SRI Minister Rajnath Singh, speaking in March 2026, stated that India must work in mission mode to emerge as a global hub of indigenous drone manufacturing, citing the urgent need to build a drone production ecosystem to ensure strategic autonomy.

As of February 2026, 676 startups, MSMEs, and innovators have joined India's defense innovation ecosystem through iDEX. 548 contracts have been signed, and 58 prototypes worth Rs 3,853 crore have received procurement clearance. This is the procurement pathway Bhumi Defense is positioned to enter.

The China Supply Chain Shift:

Indian drone manufacturers have already been sanctioned by the Ministry of Defence for using Chinese components. Globally, governments are urgently seeking non-Chinese drone suppliers. Bhumi Defense is building with this as a structural advantage - our supply chain is designed to be sovereign from the ground up.

5. OUR SOLUTION - THREE PLATFORMS

Platform 1 Surveillance FPV

Persistent battlefield awareness without exposing any personnel. Equipped with dual thermal and visual sensors, it provides real-time ISR Intelligence, Surveillance, Reconnaissance) - night and day, in all weather. Think of it as placing a set of eyes anywhere on the battlefield, instantly, at a fraction of the cost of traditional ISR assets.

Platform 2 Strike FPV

Aprecision kinetic strike drone deployable at the squad level. No air support request. No logistics chain. A team of two or three soldiers can carry, launch, and execute a precision strike independently. Designed specifically for GPS denied environments like the Line of Control, where traditional guided munitions lose effectiveness.

Platform 3 Fiber-Optic FPV

Our most technically differentiated product and the one with the clearest proof-of-concept from recent conflicts. Instead of RF signals, we use a physical fiber-optic tether between the operator and the drone. This makes the drone:

- **Completely immune to jamming and electronic warfare**
- **Invisible to radio direction-finding equipment**
- **Untraceable - the operator's position emits zero RF signal**

Russia mass-deployed fiber-optic drones starting in 2024 and proved their decisive effectiveness in contested electronic environments. The technology works. India currently has no domestic supplier of this capability. We are building one.

6. OUR TECHNOLOGY - BHUMI-OS

Allthreeplatforms operateon BHUMI OS, our fully proprietary software stack. This is not licensed software. It is not built on foreign defense frameworks. It is engineered entirely in-house.

BHUMI OS handles autonomous flight control in GPS-denied environments, real-time sensor fusion across thermal and visual arrays, target detection and tracking, encrypted command and control links, and mission management from launch to completion.

The reason this matters to investors is simple: the software is the defensible asset. Hardware can be replicated. A mature, field-tested autonomy stack built specifically for Indian operational conditions - that takes years and cannot be easily copied.

7. OUR VISION

India will fight its next war with drones. That is not a prediction. It is already happening. The question is whether India will fight that war with Indian drones, built by Indian engineers, running Indian software - or whether it will continue to depend on suppliers who may not be there when they are needed most.

Bhumi Defense exists to ensure the answer is the former.

We are not trying to copy what Ukraine or Russia built. We are building for India's specific terrain, doctrine, and threat environment - the high-altitude deserts of Ladakh, the dense forests of the Northeast, the long flat border with Pakistan. Our platforms are designed for the Indian soldier, by Indian engineers who understand the conditions on the ground.

Our long-term vision is to be to Indian defense what ISRO is to Indian space - a sovereign, trusted, indigenous capability that the country can rely on without conditions.

8. WHY NOW - THREE CONVERGING FORCES

1. Battlefield proof of concept exists.

FPV and fiber-optic drone technology has been validated in the most demanding real-world conditions possible - a high-intensity, multi-year conflict between two major military powers. FPV drones are now confirmed to account for 60 70% of all destroyed enemy equipment in modern warfare. The technology is no longer emerging. It is established. India needs it now.

2. India's policy window is open - and urgent.

The 2025 drone attack from Pakistan triggered emergency procurement, emergency funding, and direct ministerial calls for indigenous production. India's Raksha Mantri has publicly called for mission-mode effort to build domestic drone manufacturing capacity. The demand signal from the government has never been clearer.

3. The supply chain gap is real and punishable.

Indian drone companies have been sanctioned for using Chinese parts. The

government is forcing a supply chain shift. Companies that are building indigenously from the start - like Bhumi Defense - have a structural compliance advantage over those that need to re-engineer their supply chains under pressure.

9. OUR TEAM

We are a multi disciplinary founding team with direct, hands-on capability across every layer of what we are building - from airframe design to AI software to field operations.

Executive Leadership

Name	Role	Responsibility
Mr. Damodar Kumar Chauhan	**Chief Executive Officer**	**Vision, Founder, Overall Control**
Mr. Kumar Akash	**Chief Technology Officer**	**Drone technology, R&D, BHUMI OS**
Mr. Devendra Yadav	**Chief Operating Officer**	**Operations, execution, team coordination**

Engineering & R&D

Name	Role	Responsibility
Mr. Rahul Chaudhary	**Head of Drone Engineering**	**Airframe design, propulsion systems**
Mr. Akash Kumar	**FPV Systems Engineer**	**Camera, transmitter, receiver, control systems**
Mr. Rahul Chaudhary	**Electronics & Avionics Engineer**	**Flight controller, sensors, PCB design**
Mr. Nitish Kumar	**Software / AI Engineer**	**Autonomy software, targeting logic**

Manufacturing & Field Operations

Name	Role	Responsibility
Mr. Damodar Kumar Chauhan	**Manufacturing & Assembly**	**Build, integration, quality control**
Mr. Aman Kumar & Mr. Devendra Yadav	**Testing & Field Operations**	**Real-world testing, performance validation**

Business Development & Marketing

Name	Role	Responsibility
Mr. Akash Kumar & Mr. Sayantan Roy	**Business Development**	**Government contacts, partnerships, deals**
Mr. Rohan Tirkey & Mr. Niraj Kumar	**Marketing & Branding**	**Website, social media, brand**

10. ROADMAP

Stage 1 Current 2026

Complete functional prototypes of all three platforms. Initiate field testing and performance validation. Build relationships with Indian Army and paramilitary procurement channels. Apply for iDEX DISC 14 and ADITI challenge programs.

Stage 2 Near Term 2026 2027

Secure first institutional pilot contract or iDEX grant. Demonstrate platforms to relevant government bodies. Begin limited production run. Hire additional engineers and expand manufacturing capacity.

Stage 3 Medium Term 2027 2028

First procurement contract with Indian defense or paramilitary forces. Scale manufacturing. Begin ITAR-compliant export discussions with allied nations in Southeast Asia and the Middle East.

Stage 4 Long Term 2028 onwards)

Establish Bhumi Defenseas a tier-1 indigenous drone supplier to Indian defense. Expand BHUMI OS to additional unmanned platforms. Build a domestic component supply chain to reduce India's dependency on imported drone parts.

11. COMPLIANCE FRAMEWORK

We are building within established legal and export frameworks from day one - not retrofitting compliance later.

- ITAR **- We engage only with allied nations and authorized government entities**
- Wassenaar Arrangement **- Multilateral export control compliance**
- AS9100D **- Aerospace quality management standard**
- MIL STD 810H **- Military environmental testing and hardening standards**

All procurement engagements are conducted exclusively with sovereign defense ministries and Tier-1 defense contractors. We do not engage with non-state actors under any circumstances.

12. THE ASK

We are at the prototype and pre-revenue stage. We are seeking investment to fund:

- Completion and field validation of all three drone platforms
- Expansion of our engineering and testing team
- Initial manufacturing scale-up
- Government engagement and iDEX application process
- Establishment of a domestic component sourcing pipeline

We are not asking investors to bet on a future market. The market exists, is growing at 8-17% annually depending on the segment, and India has a documented, urgent, government-backed demand for exactly what we are building. We are asking investors to fund the team that is building India's answer to it.

13. CONTACT

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