

Big Bang Boom Solutions Accelerates Deployment of the Indigenous Vajra Sentinel System to the Indian Air Force in Response to Operation Sindoor

Category: Business

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Big Bang Boom Solutions (BBBS) announced the successful delivery of the first lot of its Vajra Sentinel Systems, a next-generation counter-unmanned aerial system (C-UAS), to the Indian Air Force – marking a key technological milestone in response to Operation Sindoor.



Vajra Sentinel Systems

Designed to address the dynamic aerial threat environment, the Vajra Sentinel has demonstrated superior performance when compared to both domestic and global counterparts. Developed entirely in India with over five years of intensive R&D, field trials, and carrying the prestigious DGAQA clearance, the system has successfully qualified user acceptance tests on the first attempt, a feat which eludes even the most seasoned defence enterprises.



Vajra Sentinel Systems

Asked to respond to significant drone threats during Operation Sindoor, the young team at BBBS were able to accelerate and rapidly deliver systems to support the Indian Army and Airforce. During heightened tensions at the border, BBBS' Vajra systems exceeded expectations by neutralizing multiple foreign-origin drones demonstrating its operational reliability and strategic value.

Dr. R. Shivaraman, CTO of BBBS, *"It's a proud moment for us at BBBS to have contributed to national defence. Developed under the Ministry of Defence's iDEX Challenge, the Vajra Sentinel System represents a major step forward in India's journey toward defence self-reliance. Having control over the core technologies like this not only reduces dependence on imports but also offer greater adaptability and lifecycle control tailored to Indian needs. We are now taking the learnings from Operation Sindoor and are using them to design and build our*

next gen CUAS systems," he further added.

Praveen Dwarakanath, CEO of BBBS, *"This milestone is more than a product delivery – it is a testament to India's growing capability to develop and deploy state-of-the-art defence systems without foreign dependence. By investing in indigenous solutions like the Vajra Sentinel, India significantly reduces its reliance on imported technologies, which are often expensive, difficult to customize, and restricted by geopolitical constraints."*

Big Bang Boom Solutions had secured an order worth over ₹1200 crore in 2024 from the Indian Air Force and Indian Army. Homegrown technologies enable faster adaptation to local conditions, greater control over upgrades and support, and a secure technological edge in an evolving threat environment. As India strengthens its position as a global defence innovator, such breakthroughs reinforce strategic autonomy, reduce supply chain vulnerabilities, and support the Atmanirbhar Bharat mission.

To ensure seamless delivery, Big Bang Boom's has setup its advanced manufacturing facility in Chennai which is now fully operational, with a capacity to produce over 100 systems per month. Operating in dual shifts, the facility is equipped to meet both domestic and international defence demands with speed and precision.

BBBS remains committed to delivering world-class defence innovations powered by Indian ingenuity – aligned with national security goals and designed to empower the armed forces of the future.

ABOUT Big Bang Boom Solutions (BBBS)

Big Bang Boom Solutions is India's fastest growing Startup in the Defence Sector. Founded by Dr. Shiva and Praveen Dwarakanath, serial entrepreneurs in Deep Tech, it aims to co-

create intellectual property that can be used by Indian Armed forces to counter asymmetric emerging threats. The founders have a great network in the research space which helps them develop technology faster and more frugally than by anyone else.

In addition to anti drone system, the company has won Multiple iDex challenges announced by the Ministry of Defence and has successfully completed 3 of them in diverse fields including electronic warfare, artificial intelligence and nanotechnology.

The company has also managed to setup channels for sales to friendly foreign nations with the help of the Export Promotion Cell, DDP, MOD.

