



DRDO & Research & Development:

DRDO's Key Projects

Project Kusha M1 Missile Test: The Defence Research and Development Organisation (DRDO) is gearing up for a significant test of the Project Kusha M1 missile in September 2025. This test is a crucial step for India's indigenous air defence capabilities and is part of a larger plan for the Sudarshan Chakra air defence system. The Project Kusha system is a modular design with three variants (M1, M2, and M3) aimed at providing a multi-layered defence against aircraft, drones, cruise missiles, and ballistic missiles. The M1 variant is slated to be followed by trials of the M2 and M3 in the coming years.

Aero-Engine Development: Defence Minister Rajnath Singh has announced that India is taking on the challenge of developing a powerful, indigenous aero-engine. Preparations for this critical project are nearly complete, with the goal of reducing India's dependence on foreign supplies for this vital defence component.

Collaborative R&D and Cybersecurity

Indian Army Terrier Cyber Quest 2025: The Indian Army, in collaboration with IIT Madras, is hosting a national-level challenge called the "Indian Army Terrier Cyber Quest 2025." This event, which runs through September, aims to address real-world cybersecurity threats by leveraging talent from academia, industry, and government. The challenge focuses on emerging technologies such as Artificial Intelligence (AI),

Machine Learning (ML), Quantum Computing, and drone technology to develop solutions for national security.

Post-Op Sindoor Drone Hardening: Following lessons learned from "Operation Sindoor" in May 2025, the Indian Armed Forces have directed manufacturers to enhance the hardening of drones against electronic warfare (EW). This move underscores a push for self-reliant, EW-hardened unmanned systems to ensure they remain effective force multipliers against adversaries.

Manufacturing and Institutional Updates

New Defence Manufacturing Unit: A new defence equipment and drone manufacturing unit, along with an aircraft engine and aerospace test facility, has been inaugurated in Gautam Budh Nagar, Uttar Pradesh. This initiative is a part of the government's 'Aatmanirbhar Bharat' (Self-Reliant India) mission, with a specific focus on producing indigenous drones that are difficult for adversaries to detect.

Bharat Electronics Limited (BEL) Orders: The public sector undertaking, Bharat Electronics Limited (BEL), announced that it has secured new defense and technology orders worth Rs 644 crore in August 2025. These orders are for a variety of equipment, including fire control systems and tank navigation systems, which contribute to India's indigenous defence production capabilities.





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1. What is the name of the new missile being tested by DRDO in September 2025 as part of the Sudarshan Chakra air defense system?

- A. Project Shakti
- B. Project Kusha M1
- C. Project Prahari
- D. Project Arjun

Answer: B. Project Kusha M1

The Defence Research and Development Organisation (DRDO) is conducting a significant test of the Project Kusha M1 missile, which is a key component of the indigenous Sudarshan Chakra air defence system.

2. Which institution is collaborating with the Indian Army to host the "Indian Army Terrier Cyber Quest 2025"?

- A. IIT Bombay
- B. IIT Delhi
- C. IIT Madras
- D. IIT Kanpur

Answer: C. IIT Madras

The Indian Army, in collaboration with IIT Madras, is hosting the "Indian Army Terrier Cyber Quest 2025," a national-level challenge focused on developing solutions to real-world cybersecurity threats using emerging technologies.

3. What is the primary objective of the Indian Armed Forces' directive to enhance the "hardening" of drones against electronic warfare (EW)?

- A. To increase drone flight duration
- B. To make them less expensive to manufacture
- C. To improve their stealth capabilities against radar
- D. To ensure they remain effective force multipliers against adversaries





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Answer: D. To ensure they remain effective force multipliers against adversaries
The directive to enhance the hardening of drones against electronic warfare (EW) is a direct result of lessons learned from "Operation Sindoor" in May 2025. This measure aims to prevent drones from being disabled by enemy jamming signals, thereby ensuring their effectiveness in combat.

4. A new defense manufacturing unit and aerospace test facility has been inaugurated in which city of Uttar Pradesh?

- A. Lucknow
- B. Gautam Budh Nagar
- C. Agra
- D. Varanasi

Answer: B. Gautam Budh Nagar

A new defence equipment and drone manufacturing unit, along with an aerospace test facility, has been inaugurated in Gautam Budh Nagar, Uttar Pradesh. This is part of the 'Aatmanirbhar Bharat' initiative to boost indigenous defense production.



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