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Defence news

Indian Defence

Indigenous Technology:

DRDO-IAF collaboration on a new jammer: The Defence Research and Development Organisation (DRDO) and the Indian Air Force (IAF) are collaborating to develop an advanced ground-based jammer inspired by Russia's Krasukha electronic warfare system. This S-band system is designed to neutralize Airborne Early Warning and Control (AWACS) aircraft and disrupt Global Navigation Satellite System (GNSS) signals.

AMCA Engine Development: India's Advanced Medium Combat Aircraft (AMCA) program is expected to yield a significant technological spin-off. The Gas Turbine Research Establishment (GTRE) is developing a high-bypass turbofan engine for the AMCA that could also power commercial aircraft like India's proposed Regional Transport Aircraft (RTA).

Tejas MK-1A Trials: Hindustan Aeronautics Limited (HAL) is set to conduct the final weapons firing trials for the indigenous Tejas MK-1A fighter jet in September 2025. This is a crucial step before its full induction into the IAF.

Acquisitions & Industry:

Paras Defence Order: Paras Defence and Space Technologies Ltd. has secured a ₹45.32 crore order from Bharat Electronics Ltd (BEL) for signal and data processing systems and multi-sensor fusion systems.

IAF to Procure C-295M: The Indian Air Force is planning to procure an additional 50 Airbus C-295M transport aircraft. This would bring the total fleet to 106, as part of a strategy to phase out the aging Antonov An-32 aircraft.

Tactical ATVs: JSW Sarbloh Motors and Tomcar USA have formed a joint venture to build tactical All-Terrain Vehicles (ATVs) in India, which will enhance the tactical mobility of the armed forces.

Other Developments:

Operation Sindoor: In a recent Independence Day address, PM Modi described "Operation Sindoor" as a "new normal" in India's response to cross-border terrorism. The operation involved the use of drones and precision munitions to strike nine terrorist camps in Pakistan and Pakistan-occupied Jammu and Kashmir.

Meeting with Astronaut: Astronaut Shubhanshu Shukla, who was part of the Axiom-4 mission met with Defence Minister Rajnath Singh to discuss his space journey and India's Gaganyaan human spaceflight program.

Global Defence

Russia-Ukraine War: The conflict continues with reports of a Ukrainian combined missile and drone attack in Yenakiyev and a Russian attack on a gas compressor station in eastern Ukraine. Belarus is also reportedly assessing how to equip its Polonez rocket launcher systems with nuclear warheads.





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Australia-UK Partnership: Australia and the UK have partnered on a Guided Weapons and Explosive Ordnance (GWEO) research and development program. The "Copperhead Project Arrangement" aims to use "plug and launch" modular technology to develop affordable, next-generation guided weapons systems.

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MCQS

1. What is the purpose of the new ground-based jammer being developed by DRDO and the IAF?
- To enhance communications between ground troops.
 - To neutralize AWACS aircraft and disrupt GNSS signals.
 - To protect against missile attacks.
 - To intercept and decode enemy communications.

Answer: b) To neutralize AWACS aircraft and disrupt GNSS signals.

The prompt states that the S-band jammer is "designed to neutralize Airborne Early Warning and Control (AWACS) aircraft and disrupt Global Navigation Satellite System (GNSS) signals."





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2.What is the key technological spin-off from the AMCA engine development program?

- a) It will be used to power naval ships.
- b) It could also power commercial aircraft like India's proposed Regional Transport Aircraft (RTA).
- c) It is a new type of rocket engine for space launches.
- d) It will be used to generate electricity for military bases.

Answer: b) It could also power commercial aircraft like India's proposed Regional Transport Aircraft (RTA).

The text indicates that the high-bypass turbofan engine for the AMCA "could also power commercial aircraft like India's proposed Regional Transport Aircraft (RTA)."

3.What was the objective of "Operation Sindoor," as described by PM Modi?

- a) To conduct a joint military exercise with a friendly nation.
- b) To launch a new satellite for military surveillance.
- c) To strike terrorist camps using drones and precision munitions.
- d) To provide humanitarian aid in a conflict zone.

Answer: c) To strike terrorist camps using drones and precision munitions.

The prompt describes "Operation Sindoor" as an operation that "involved the use of drones and precision munitions to strike nine terrorist camps in Pakistan and Pakistan-occupied Jammu and Kashmir."

4.What is the primary goal of the "Copperhead Project Arrangement" between Australia and the UK?

- a) To develop affordable, next-generation guided weapons systems.

- b) To share intelligence on naval movements.
- c) To train special forces in joint operations.
- d) To establish a new military alliance in the Indo-Pacific.

Answer: a) To develop affordable, next-generation guided weapons systems.
The prompt explains that the project "aims to use 'plug and launch' modular technology to develop affordable, next-generation guided weapons systems."

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