



DRDO & Research & Development:

Technology Transfer Agreements

BHEL & DRDO: Bharat Heavy Electricals Ltd. (BHEL) has signed a License Agreement for Transfer of Technology (LAToT) with the DRDO's Defence Metallurgical Research Laboratory (DMRL) for the indigenous manufacture of Fused Silica Radar Domes. These domes are a critical component for missile guidance systems. The agreement is a significant step towards reducing India's dependence on imports for key defense components.

Apollo Micro Systems & DRDO: Apollo Micro Systems has secured two key agreements with DRDO. The company has been approved as the production agency for the Multi-Influence Ground Mine (MIGM) - 'Vighana'. Additionally, it has signed a technology transfer agreement for an Omni-Directional multi-EFP warhead for the NASM-SR missile.

JNU & DRDO-SAG: The Scientific Analysis Group (SAG) of DRDO has signed a Memorandum of Understanding (MoU) with Jawaharlal Nehru University (JNU) to foster advanced research in strategic technologies. The collaboration will focus on emerging fields like cybersecurity, artificial intelligence, big data analytics, and quantum communication.

Key Developments and Project Updates

Integrated Air Defence Weapon System (IADWS): The DRDO recently conducted a successful maiden flight test of the Integrated

Air Defence Weapon System (IADWS). The multi-layered system, which includes indigenous Quick Reaction Surface to Air Missiles (QRSAM), Very Short-Range Air Defence System (VSHORADS) missiles, and a high-power laser-based Directed Energy Weapon (DEW), successfully engaged and destroyed multiple aerial targets simultaneously.

Zorawar Light Tank: The second prototype of the Zorawar light tank is scheduled for a September 2025 rollout. Developed jointly by DRDO and Larsen & Toubro (L&T), this tank is specifically designed for high-altitude operations to enhance the Indian Army's capabilities along the Line of Actual Control (LAC).

Project Kusha: The DRDO is preparing for the test of the Project Kusha M1 missile in September 2025, which is a significant step in bolstering India's indigenous air defense capabilities. The system will have a common kill vehicle with different boosters to achieve varying engagement ranges.

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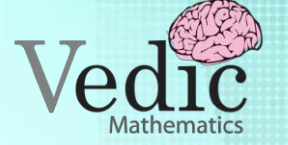
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MCQS

1. What critical component for missile guidance systems will be manufactured by BHEL under a technology transfer agreement with DRDO?

- a) Omni-Directional multi-EFP warheads.
- b) Fused Silica Radar Domes.
- c) Multi-Influence Ground Mines.
- d) Directed Energy Weapons (DEWs).

Answer: b)

The news states that BHEL has signed an agreement with DRDO's DMRL for the indigenous manufacture of Fused Silica Radar Domes, which are a crucial component for missile guidance systems. This move is intended to reduce India's reliance on imported defense parts.

2. The DRDO and Jawaharlal Nehru University (JNU) have signed an MoU to collaborate on research in which of the following areas?

- a) Medical biotechnology and pharmaceutical development.
- b) Advanced robotics and space exploration.
- c) Cybersecurity, artificial intelligence, and quantum communication.
- d) Renewable energy and climate change mitigation.

Answer: c)

The news reports that the DRDO's Scientific Analysis Group (SAG) has partnered with JNU to foster research in strategic technologies, with a specific focus on emerging fields like cybersecurity, artificial intelligence, big data analytics, and quantum communication.

3. What is the primary purpose of the 'Zorawar' light tank?

- a) To be used in desert warfare.
- b) To be deployed in amphibious operations.
- c) To provide heavy firepower for urban combat.
- d) To enhance the Indian Army's capabilities for high-altitude operations.

Answer: d)

The text indicates that the 'Zorawar' light tank, developed jointly by DRDO and L&T, is specifically designed for high-altitude operations to bolster the Indian Army's capabilities along the Line of Actual Control (LAC).

4. Which of the following is a component of the Integrated Air Defence Weapon System (IADWS) that recently had a successful flight test?

- a) An anti-tank guided missile.
- b) A long-range ballistic missile.





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- c) A high-power laser-based Directed Energy Weapon (DEW).
d) A ship-launched torpedo.

Answer: c)

The news mentions that the IADWS is a multi-layered system that includes a high-power laser-based Directed Energy Weapon (DEW), along with other indigenous missile systems like QRSAM and VSHORADS.

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