



DRDO & Research & Development:

Key Developments

Technology Transfer: The transferred technologies include:

High-strength Radomes: Protective covers for missile sensors, transferred to BHEL, Jagdishpur, to enhance self-reliance in missile systems.

DMR-1700 Steel Sheets and Plates: These materials, with an excellent combination of high strength and fracture toughness, were transferred to JSPL, Angul, for defense applications.

DMR 249A HSLA Steel Plates: High-strength low-alloy steel plates for naval applications, transferred to Bhilai Steel Plant (BSP), to be used in the construction of naval vessels.

Industry-Academia Collaboration: In a separate development, a Memorandum of Understanding (MoU) was signed between DMRL and the Aircraft Accident Investigation Bureau of the Ministry of Civil Aviation. This pact aims to leverage the lab's expertise and facilities to support the bureau's activities.

Project Kusha Missile Test: The DRDO is gearing up for the test of the Project Kusha M1 missile this month. This is a critical step in developing India's indigenous air defense capabilities. The Project Kusha system is designed to provide a multi-layered air defense network to counter a wide range of aerial threats, including aircraft, drones, and ballistic missiles.

Jet Engine Co-development: India is co-developing a high-thrust indigenous fighter jet engine with French manufacturer Safran. The project is valued at nearly \$7 billion and aims to power India's next-generation fighter, the Advanced Medium Combat Aircraft (AMCA), and reduce reliance on foreign suppliers for critical aviation technology.

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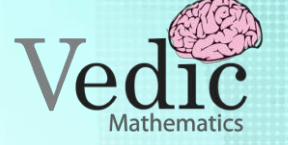
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- b) Bhilai Steel Plant (BSP)
- c) BHEL, Jagdishpur
- d) Bharat Electronics Limited (BEL)

Answer: c) BHEL, Jagdishpur

The "Technology Transfer" section specifies that "High-strength Radomes... [were] transferred to BHEL, Jagdishpur."

3. The Project Kusha system is designed to provide India with what type of defense capability?

- a) Submarine propulsion
- b) Air defense network
- c) Long-range naval vessels
- d) Anti-satellite weapon

Answer: b) Air defense network

The "Project Kusha Missile Test" section states that the system is "designed to provide a multi-layered air defense network to counter a wide range of aerial threats."

MCQS

1. The DRDO recently transferred three advanced materials technologies to industry partners. Which of the following was NOT among the transferred technologies?

- a) High-strength Radomes
- b) DMR-1700 Steel Sheets and Plates
- c) DMR 249A HSLA Steel Plates
- d) Project Kusha M1 missile system

Answer: d) Project Kusha M1 missile system

The "Technology Transfer" section lists the three technologies transferred: High-strength Radomes, DMR-1700 Steel Sheets and Plates, and DMR 249A HSLA Steel Plates. Project Kusha is mentioned separately as an upcoming test.

2. Which Indian public sector undertaking received the technology for high-strength radomes from DRDO?

- a) JSPL, Angul

4. India is co-developing a high-thrust indigenous fighter jet engine with which foreign company?

- a) Boeing
- b) Lockheed Martin
- c) Safran (France)
- d) Thyssenkrupp (Germany)

Answer: c) Safran (France)

The "Jet Engine Co-development" section clearly states that India is "co-developing a high-thrust indigenous fighter jet engine with French manufacturer Safran."

5. What is the value of the joint project between India and Safran to co-develop a new fighter jet engine?

- a) \$1 billion
- b) \$5 billion
- c) Nearly \$7 billion





d) \$10 billion

Answer: c) Nearly \$7 billion

The "Jet Engine Co-development" section notes that "The project is valued at nearly \$7 billion and aims to power India's next-generation fighter."

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