

Operation Sindoor

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Operation Sindoor Latest News

Operation Sindoor was launched by the Indian Armed Forces recently as a retaliatory precision strike on terror camps in Pakistan and Pakistan-occupied Kashmir (PoK).

Precision and Targeting

- **21 terror camps** across **9 different locations** were hit using **niche-technology weapons** and **carefully selected warheads** to ensure **minimum collateral damage**.
- The weapons deployed were part of India's **long-range precision-guided arsenal**, built over the last few years for **high-value target engagement**.

Key Weapons Used in Operation Sindoor

- **HAMMER (Highly Agile and Manoeuvrable Munition Extended Range):** A French-origin air-to-ground smart weapon system integrated with **Rafale aircraft**.
 - **Range:** Up to **70 km**; capable of being fitted on various guided platforms.
 - **Features:** All-weather precision, **autonomous guidance**, **resistant to jamming**, and **effective at low altitudes and rough terrains**.
 - Recently acquired by India for **deep strike capabilities**.
- **SCALP (Système de Croisière Autonome à Longue Portée):** An air-launched stealth cruise missile, also called **Storm Shadow** in the UK.
 - **Range:** Up to **450 km**, with **terrain-hugging flight** for **stealth and precision**.
 - Equipped with **INS, GPS**, and **terrain referencing systems** for **bunker-busting accuracy**.
- **METEOR (Beyond Visual Range Air-to-Air Missile - BVRAAM):** A next-generation air-to-air missile built by **MBDA**, effective in **electronic warfare environments**.
 - Uses a **solid-fuel ramjet engine**, giving it an **extended No-Escape Zone**, enabling **target destruction at maximum range**.
- **BRAHMOS Supersonic Cruise Missile:** Jointly developed by **DRDO (India)** and **NPOM (Russia)** under **BrahMos Aerospace**.
 - **Speed:** Up to **Mach 2.8-3.0**; **Range:** Increased from **290 km to ~450-500 km** after India enters into the **MTCR**.
 - Operates on **Fire-and-Forget Principle**, adaptable for **land, sea, and air platforms**.
 - **Warhead:** 200-300 kg; **Terminal altitude** as low as **10 metres**.
- **Loitering Munitions (Kamikaze Drones):** Can **hover over target areas**, perform **surveillance**, and strike with **high precision** when a target is identified.
 - **Autonomous or semi-autonomous systems** used to strike **mobile or time-sensitive targets**.
 - Being **inducted in large numbers** across the Army, Navy, and Air Force.

Operation Sindoor FAQs

Q1. What is the full form of HAMMER in missile technology?

Ans. HAMMER stands for Highly Agile Modular Munition Extended Range, a precision-guided air-to-ground missile developed by France.

Q2. What is SCALP in the context of missiles?

Ans. SCALP stands for Système de Croisière Autonome à Longue Portée, a long-range, air-launched cruise missile developed by France.

Q3. What is the BRAHMOS missile?

Ans. BRAHMOS is a supersonic cruise missile jointly developed by India and Russia, named after the Brahmaputra and Moskva rivers.

Source: [IE](#)