

Medium Range-Surface to Air Missile (MR-SAM)

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Medium Range-Surface to Air Missile Latest News

The Indian Navy has successfully test-fired a Medium range surface-to-air missile (MR-SAM) air defence missile system aboard the INS Surat warship in the Arabian Sea recently.

About Medium Range-Surface to Air Missile

- It is a **high-response, quick-reaction, vertically launched supersonic missile** designed to **neutralize enemy aerial threats** – missiles, aircraft, guided bombs, helicopters, etc.
- It is **developed jointly by** Defence Research and Development Organisation (**DRDO**) and **Israel Aerospace Industries**, and is **produced at Bharat Dynamics Limited (BDL)**.
- **Features:**
 - Each MRSAM weapon system **comprises one command and control system**, one **tracking radar**, **missiles**, and **mobile launcher** systems.
 - The mobile launcher is used to transport, emplace, and launch up to eight canisterised missiles in two stacks.

- It can fire the missiles in single or ripple firing modes from the vertical firing position.
- The weapon is 4.5 m-long, weighs approximately 276kg, and is equipped with canards and fins for control and manoeuvrability.
- It is equipped with an **advanced active radar radio frequency (RF) seeker**, advanced **rotating phased array radar**, and a **bidirectional data link**.
- It is powered by a **dual-pulse solid propulsion system** developed by DRDO.
- The propulsion system, coupled with a thrust vector control system, allows the missile to move at a maximum speed of Mach 2.
- The weapon has the ability to engage multiple targets simultaneously at **ranges of 70 km**.

Medium Range-Surface to Air Missile FAQs

Q1. The Medium Range Surface-to-Air Missile (MRSAM) is developed jointly by DRDO and which foreign organization?

Ans. Israel Aerospace Industries

Q2. What is the primary purpose of the MRSAM system?

Ans. Neutralize aerial threats like missiles, aircraft, and helicopters

Q3. What is the maximum engagement range of the MRSAM system?

Ans. 70 km

Source: [HT](#)

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