

Naval Anti-Ship Missile-Medium Range (NASM-MR)

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Naval Anti-Ship Missile-Medium Range (NASM-MR) Latest News

India recently concluded successful trials of a multi-layered Ballistic Missile Defence (BMD) system and the maiden flight-test of the Naval Anti-Ship Missile-Medium Range (NASM-MR).

About Naval Anti-Ship Missile-Medium Range (NASM-MR)

- It is a **subsonic, sea-skimming anti-ship missile**.
- It is being developed by the **Defence Research and Development Organisation (DRDO)** for the **Indian Navy for use against small- to medium-sized targets** such as frigates, corvettes, and destroyers.
- It will have **different versions**, including **ship-launched, air-launched, and submarine-launched** variants.
- The missile **complements the existing Naval Anti-Ship Missile-Short Range (NASM-SR)**, which was successfully tested earlier from a helicopter platform.
- Together, these systems **provide layered strike options for the Navy**, enabling both close-range and medium-range engagements against hostile warships.

- **Features:**

- It is powered by a **Small Gas Turbine Jet Engine** (SGTJE).
- This all-weather missile has a **strike range of up to 350 km**.
- It has a warhead weighing more than 200 kilograms.
- It has an **advanced guidance system**, which reportedly combines an **active radar seeker with an imaging infrared (IR) seeker**.

Successful Trials of Multi-Layered Ballistic Missile Defence (BMD) system

- The **latest tests** involved **advanced interceptor systems** developed under **Phase II of the BMD programme**, including the **AD-series interceptors**.
- These systems have been designed to **engage and neutralise advanced, high-speed threats** such as **intermediate-range ballistic missiles (IRBMs)** and **ICBMs capable of travelling up to the 5,000-km class**.
- The **AD-1 endo-atmospheric interceptor** has been designed to **intercept targets within the Earth's atmosphere during the terminal phase of their flight**.
 - Propelled by a **two-stage solid motor**, it utilises **advanced navigation and guidance algorithms to track and destroy** fast-moving missiles as well as slower-moving aircraft.
- Similarly, the **AD-2 interceptor** has been designed to **intercept** incoming missiles at **much higher altitudes, beyond the Earth's atmosphere during their mid-course flight phase**.
 - This allows **early interception in space**, destroying threats before they can re-enter and target specific regions.
- **Both missiles** are **highly manoeuvrable** and **capable of hypersonic speeds** ranging from Mach 6 to Mach 7, enabling them to intercept fast-moving ballistic targets.
- These tests have put the country in the **elite group of nations having BMD capability to engage up to ICBMs**.

News: REP

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