

Supersonic Missile-Assisted Release of Torpedo (SMART) System

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About Supersonic Missile-Assisted Release of Torpedo (SMART) System

- It has been designed and developed by the **Defence Research and Development Organisation**.
 - It was launched from a ground mobile launcher from the **Dr APJ Abdul Kalam** Island off the Odisha coast.
 - **Features**
 - This missile-based mechanism to launch **lightweight torpedoes** can target submarines hundreds of kilometres away — far beyond the conventional range of lightweight torpedoes.
 - It will be particularly employed in the absence of other assets for immediate action when an enemy submarine is detected.
 - It is the **canister-based missile system** comprises several advanced subsystems including **two-stage solid propulsion and precision inertial navigation**.
 - It carries an advanced lightweight torpedo missile as a payload along with a parachute-based release mechanism.
 - Several state-of-the-art mechanisms, such as **symmetric separation, ejection and velocity control**, have been validated with this test.
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Q1: What is the Defence Research and Development Organisation (DRDO)?

It is the R&D wing of the Ministry of Defence, Govt of India, with a vision to empower India with cutting-edge defence technologies and a mission to achieve self-reliance in critical defence technologies and systems.

Source: **DRDO successfully tests missile-assisted torpedo release system**

Source: <https://vajiramandravi.com/current-affairs/supersonic-missile-assisted-release-of-torpedo-smart-system/>

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