

Supersonic Missile Assisted Release of Torpedo (SMART)

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In News

A successful flight test of the Supersonic Missile Assisted Release of Torpedo (SMART) system was conducted from **Wheeler Island, off the coast of Odisha**. Development Organisation (DRDO) Chairman, has termed the system a game changer in anti-submarine warfare. The development of the system has been crucial in **capacity building of naval platforms to strike beyond the torpedo range**.

Features of SMART

- SMART is a **missile-assisted release of lightweight anti-submarine torpedo** system for anti-submarine warfare (ASW) **operations far beyond torpedo range**.
- SMART is a hybrid missile that incorporates technologies of two different weapon systems making it **faster and stealthier**. With this, India has got an anti-submarine weapon having much higher range. While the long range torpedo available in the world is around 50 km and rocket-assisted torpedoes can strike at a range of 150 km, the SMART will have a **range of over 600 km**.
- Once fired, the weapon system will **fly like a supersonic missile in the air at a low altitude and eject the torpedo into water after it comes closer to the target**. The torpedo will then move towards the target and destroy it.
- The system will be a significant addition to India's anti-submarine warfare capabilities and the test is a key step towards its deployment.
- All the mission objectives, including **missile flight up to the range and altitude, separation of the nose cone,**

release of torpedo and deployment of Velocity Reduction Mechanism (VRM) were met perfectly.

- The tracking mechanisms for test-the radars, electro-optical systems along the coast and the telemetry stations, including down range ships monitored all the events.
- A number of DRDO laboratories, including **Defence Research and Development Laboratory (DRDL)** and **Research Centre Imarat (RCI)**, both located in Hyderabad, Ariel Delivery Research and Development Establishment (ADRDE) Agra and Naval Science and Technology Laboratory (NSTL), Visakhapatnam, have developed the technologies required for SMART.