

SMART System

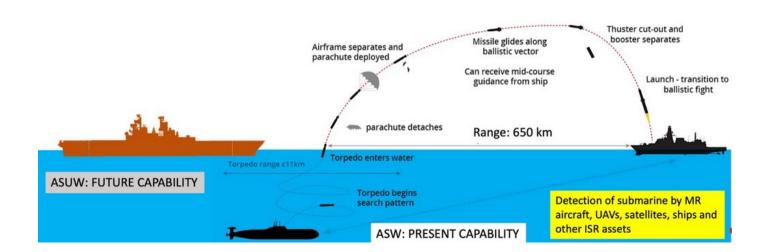
Source: PIB

Recently, the <u>Defence Research and Development Organisation (DRDO)</u> successfully conducted a flight test of the <u>Supersonic Missile-Assisted Release of Torpedo (SMART) system</u> from **Dr APJ Abdul Kalam Island** off the coast of Odisha.

SMART System:

- It represents a next-generation missile-based lightweight torpedo delivery system.
- Its primary aim is to significantly augment the anti-submarine warfare capabilities of the Indian Navy extending beyond the conventional range of lightweight torpedoes.
 - The missile is launched from a ground mobile launcher.
- This canister-based missile system incorporates various advanced sub-systems,
- It includes a two-stage solid propulsion system electromechanical actuator system and precision inertial navigation system.
- When it approaches close enough to the submerged submarine, the missile will eject the
 torpedo system into the water and the autonomous torpedo will start moving towards
 its target to take out the submarine.
- A torpedo is an underwater weapon with a cigar-shaped design, propelled by its power.
 - It can be launched from various platforms such as submarines, surface vessels, or aeroplanes.
- <u>Varunastra</u> stands as the inaugural indigenous heavyweight ship-launched anti-submarine electric torpedo.

Supersonic Missile Assisted Release of Torpedo (SMART) CONOPS



Read more: Supersonic Missile Assisted Torpedo

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