

VL-SRSAM missile system

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In news— Recently, Defence Research and Development Organisation (DRDO) and Indian Navy have successfully flight tested the **Vertical Launch Short Range Surface to Air Missile (VL-SRSAM)** off the coast of Chandipur in Odisha.

About VL-SRSAM system-

- VL-SRSAM is a quick reaction surface-to-air missile.
- It is an indigenously developed **shipborne weapon system** and it has been designed to **strike at the high-speed airborne targets** at the **range of 40km to 50km** and at an **altitude of around 15km**.
- It is **meant for neutralising various aerial threats** at close ranges including sea-skimming targets.
- Two **key features of the VL-SRSAM are** cruciform wings and thrust vectoring.
- **The key DRDO facilities that contributed to the development of the system are** Defence Research and Development Laboratory (DRDL) and Research Centre Imarat (RCI), both from Hyderabad, and Research & Development Establishment (Engineers) based in Pune.
- It is a **canisterised system, which means it is stored and operated from specially designed compartments**.
- **In the canister, the inside environment is controlled**, thus making its transport and storage easier and improving the shelf life of weapons.
- With lock on before launch (LOBL) and lock on after launch (LOAL) capability, the missile receives mid-course update via datalink.
- VL-SRSAM intended to replace the older Barak 1 surface to air missile system onboard Indian Navy warships.

Quick Reaction Surface to Air Missile System (QRSAM)-

- QRSAM is designed to protect moving armoured columns

from aerial attacks.

- The entire weapon system is configured on highly mobile platforms and is capable of providing air defence on the move.
- **QRSAM Weapon Systems is being inducted into the Indian Army.**
- The Missile is canisterised for transportation and launch using a mobile launcher capable of carrying 6 canisterised missiles.
- QSRAM is a missile developed by:
 - Defence Research and Development Organisation (DRDO)
 - Bharat Electronics Limited
 - Bharat Dynamics Limited for the Indian Army.
- The missile is propelled by a single stage solid propellant rocket motor and uses all indigenous subsystems.