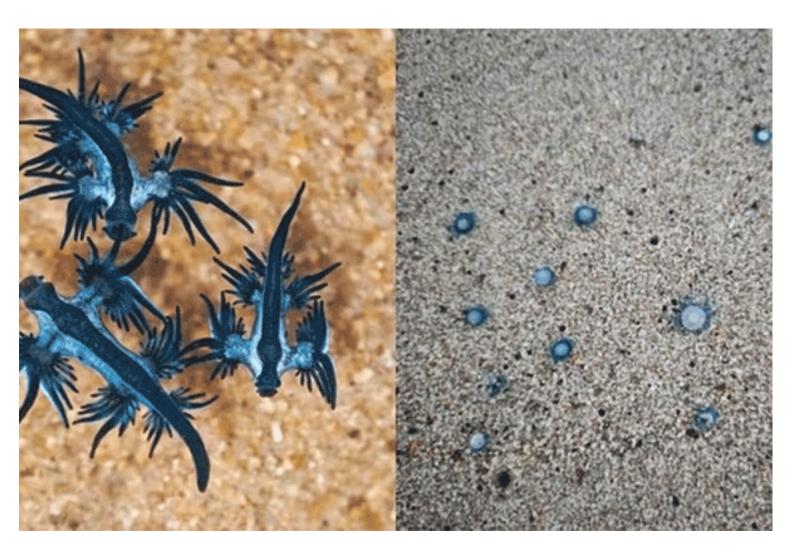


'SAMAR' air defence missile system

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'SAMAR' air defence missile system

Indian Air Force successfully test fired 'SAMAR' air defence missile system at **Exercise Astrashakti** 2023 at **Suryalanka** Air Force Station, **Andhra Pradesh.**



[Ref-Swarajya]

About SAMAR air defence missile system:

- The Indian Air Force (IAF) developed the Surface to Air Missile for Assured Retaliation (SAMAR) air defence missile system by using its old Russian-origin air-to-air missile systems.
- It carried out the successful firing trials of its in-house designed and developed SAMAR system under the IAF's Maintenance Command.
- SAMAR is jointly developed by the IAF's 7 and 11 Base Repair Depot (BRD) in association with Indian private-sector companies.
- The system participated for the first time in the exercise to test its **surface-to-air weapon systems** and carry out their **operational field trials.**

Key features of SAMAR:

- It is a **short-range air-defence** system that can engage aerial threats with missiles operating at a **speed range of 2 to 2.5 Mach.**
- SAMAR system consists of a **twin-turret launch platform** with the capability of launching two missiles in single and salvo mode, depending on the **threat scenario**.
- It has launch beams, fire-control unit, an electronic control unit, and auxiliary units like self-loading knuckle crane and a servo mechanism feedback unit.
- It employs the IAF's shelf-life-expired Russian Vympel R-73E infrared?guided air-to-air missiles (AAMs), which were upgraded.
- SAMAR is intended **to replace** the IAF's **Pechora systems**, which have been in service since the 1970s.