

Quick Reaction Surface to Air Missile (QRSAM) System

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In news

Recently, QRSAM system achieved a major milestone

Key Highlights

- Country's QRSAM System achieved a major milestone when it directly hit a pilotless target aircraft (PTA) at medium range and medium altitude
- The missile was launched from the Integrated Test Range (ITR) at Chandipur near Balasore in Odisha.
- Propelled by a single-stage solid propellant rocket motor, **the sophisticated missile uses indigenous subsystems.**
- The missile is canisterised for transportation and launch using a mobile launcher, capable of carrying six canisterised missiles.
- As per the defence sources, all QRSAM weapon system elements, like battery multifunction radar, battery surveillance radar, battery command post vehicle and mobile launcher, were deployed in the flight test
- The radar tracked the target – Banshee PTA – from the farthest range and the missile was launched when the target was within the kill zone.
- It achieved a direct hit, with terminal active homing by RF seeker guidance

What is Quick Reaction Surface to Air Missile (QRSAM) System?

- It is developed by DRDO in collaboration with Bharat Electronics Limited and Bharat Dynamics Limited for the Indian Army
- It is an all-weather, all-terrain surface-to-air missile

equipped with electronic counter measures against jamming by aircraft radars.

- The missile can be mounted on a truck and is stored in a canister.
- QRSAM uses solid-fuel propellant and has a range of 25–30 km.
- It is capable of detecting and tracking targets on the move and engaging targets with short halts.
- It is designed to give air defence coverage against strike columns of the Army
- The single-staged missile utilized by the system is propelled using solid propellants.
- It is equipped with a midcourse inertial navigation system with a two-way data link and a DRDO-developed terminal active seeker.
- It has the capability to search and track targets while moving