



Astra Missile

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The [DRDO](#) and **Indian Air Force (IAF)** has successfully test-fired the **indigenous Beyond Visual Range Air-to-Air Missile (BVRAAM) 'Astra'** with an **indigenously developed Radio Frequency (RF) Seeker** from a [Su-30 Mk-I fighter aircraft](#) off the coast of Odisha.

BVRAAM Astra:

- **About: Astra** is India's first indigenous **BVRAAM**, designed to target enemy aircraft **beyond line-of-sight**.
 - It is equipped with a **DRDO-developed indigenous Radio Frequency (RF) Seeker**, which enables the missile to **detect, track, and lock onto targets using radar**, ensuring high accuracy in the terminal phase.
- **Key Features:**
 - Astra is India's first **indigenous BVRAAM**, capable of engaging **supersonic, manoeuvrable targets** beyond **100 km** and up to **20 km altitude**.
 - Uses **inertial navigation, mid-course data link updates**, and **active radar homing**, with a **smokeless solid-fuel engine** for enhanced stealth.
 - Equipped with a **DRDO-developed active RF seeker**, enabling **fire-and-forget** and **buddy launch mode**, where one aircraft launches and another guides.

Indigenous Mounted Gun System (MGS):

- DRDO's **Vehicle Research and Development Establishment (VRDE)** has developed a fully indigenous **155mm/52 calibre MGS**, which can be deployed in just **80 seconds**.
 - **MGS** is a type of **mobile artillery weapon** where a **large-calibre gun** (like a 155mm howitzer) is mounted on a **wheeled or tracked vehicle** instead of being towed separately.

Su-30MKI:

- The [Su-30MKI](#) is a **twin-engine multirole fighter** developed by **Russia's Sukhoi** and built by **HAL** for the **IAF**.
 - Inducted in **2002**, it performs **air superiority, ground attack, electronic warfare**, and **maritime strike** roles, and is a key asset in India's combat fleet.



Read More: [Astra Mk-1 Missile](#)

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