

Dhvani Missile

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Dhvani Missile Latest News

India's Defence Research and Development Organisation (DRDO) is on the verge of a historic breakthrough with the upcoming test of Dhvani, a cutting-edge hypersonic missile that promises to catapult the nation into an elite club of military superpowers.

About Dhvani Missile

- It is an **hypersonic missile** being developed by **India's Defence Research and Development Organisation (DRDO)**.
- The Dhvani is being **developed as a Hypersonic Glide Vehicle (HGV)**, a revolutionary weapon system that combines **blistering speed with unprecedented maneuverability**.
 - Unlike conventional cruise missiles that follow predictable flight paths, the Dhvani will be **launched to extreme altitudes before gliding toward its target at hypersonic speeds**.
 - This unique capability **makes it nearly impossible to detect** and even harder to intercept, rendering most existing missile defense systems obsolete.

- It will be capable of **striking both land-based and maritime targets with pinpoint precision.**
- It can fly at **speeds exceeding Mach 5 or 6**, nearly 7,400 km per hour.
- It has **estimated ranges** between **6,000 to 10,000 kilometers.**
- What sets Dhvani apart is its **sophisticated design.**
 - The missile features a **blended wing-body configuration** measuring approximately 9 meters in length and 2.5 meters in width.
 - Its **advanced heat protection system**, utilizing ultra-high-temperature ceramic composites, can withstand temperatures between 2,000-3,000°C generated during atmospheric reentry.
 - The **stealth-optimized geometry**, including angled surfaces and smooth contours, dramatically reduces its radar cross-section, making it **virtually invisible to enemy tracking systems.**

Source: WION

Source: <https://vajiramandravi.com/current-affairs/dhvani-missile/>

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