

K-6 Missile

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K-6 Missile Latest News

In a major boost to its strategic deterrence and naval capabilities, India is developing the K-6 hypersonic submarine-launched ballistic missile (SLBM).

About K-6 Missile

- It is a **nuclear-capable submarine-launched ballistic missile (SLBM)**.
- It is under development at **DRDO's Advanced Naval Systems Laboratory in Hyderabad**.
- It is designed **specifically for the advanced S-5 class SSBNs (nuclear-powered ballistic missile submarines)** of the Indian Navy.
 - Larger than the Arihant, the S-5 will be 12 metres long, 2 metres wide, and capable of carrying two to three tonnes of warheads.
- **K-6 Missile Features:**
 - It is a **hypersonic SLBM** capable of reaching speeds up to Mach 7.5—or approximately 9,261 kilometres per hour.

- This staggering speed dramatically **reduces enemy reaction time** and **makes interception** by conventional missile defence systems **virtually impossible**.
- The K-6 missile boasts an impressive **range of 8,000 kilometers**. India has **previously tested** the **K-3 (1,000 to 2,000 km range)**, **K-4 (3,500 km range)**, and **K-5 (5,000 to 6,000 km range)** SLBMs, with the **K-4 and K-5 already inducted** into the Navy.
- The missile is capable of carrying both **nuclear and conventional warheads**, offering strategic flexibility in both wartime and deterrent scenarios.
- It is being designed with **MIRV (Multiple Independently Targetable Reentry Vehicle) capability**—allowing a single missile to carry and deploy multiple warheads at different targets.

Source: N18

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