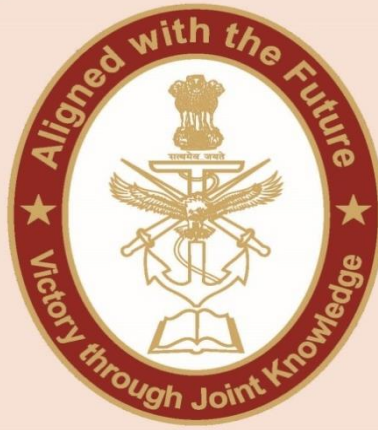


CENTRE FOR JOINT WARFARE STUDIES



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INDIA'S HYPERSONIC CAPABILITIES

In August 2020, India test-fired its first indigenous Hypersonic Technology Demonstrator Vehicle (HSTDV), developed by the DRDO. During the HSTDV test, the missile attained a speed of Mach 6 and traveled for just 23 seconds. However, with this indigenously manufactured technology, India joined a select group of countries, including the United States, Russia, and China, with technology capable of taking an unpredictable trajectory and eluding interceptor detection.

The India-Russia defense joint venture BrahMos Aerospace announced that India would have its first hypersonic missiles in five to six years.

The **BrahMos II** is set to be twice as fast as the BrahMos cruise missile, capable of exceeding Mach 6. Even though the missile is projected to have a range of 600 kilometers, experts suggest that the BrahMos II, similar to Russia's Zircon hypersonic missile, would travel at a speed of Mach 8 and have a range of 1000 kilometers.

India operates approximately 12 hypersonic wind tunnels and is capable of testing speeds of up to Mach 13.

<https://eurasianimes.com/india-hypersonic-brahmos-ii-missile-could-be-based-on-zircon/>

<https://eurasianimes.com/india-prepares-to-go-hypersonic-with-brahmos-its-ng/>

<https://theprint.in/defence/india-among-few-countries-developing-hypersonic-missiles-us-congressional-report-says/754703/>