

## K-4 बैलिस्टिक मिसाइल का एक सप्ताह में दूसरी बार सफल परीक्षण, चीन और पाक आएंगे मिसाइल की जद में

**भारत ने दुश्मन को हराने के लिए अपनी सामरिक क्षमता में विस्तार करते हुए शुक्रवार को दूसरी बार शक्तिशाली के-4 बैलिस्टिक मिसाइल का सफल परीक्षण किया है।**

**विशाखापट्टनम:** भारत ने दुश्मन को हराने के लिए अपनी सामरिक क्षमता में विस्तार करते हुए शुक्रवार को दूसरी बार शक्तिशाली के-4 बैलिस्टिक मिसाइल का सफल परीक्षण किया है। आंध्र प्रदेश के समुद्री तट से दागी गई इस मिसाइल की रेंज 3,500 किलोमीटर है और यह पनडुब्बी से दुश्मन के ठिकानों को निशाना बनाने में सक्षम है। इससे पहले इसका परीक्षण रविवार को किया गया था।

सरकारी सूत्रों ने बताया कि मिसाइल का परीक्षण दिन के समय समुद्र में पानी के भीतर बने प्लेटफॉर्म से किया गया। इसका विकास रक्षा अनुसंधान एवं विकास संगठन (डीआरडीओ) ने किया है। इसे अरिहंत श्रेणी की परमाणु क्षमता से संपन्न पनडुब्बियों में तैनात किया जाना है। परमाणु क्षमता से संपन्न पनडुब्बियों पर तैनाती से पहले भारत इस मिसाइल के अभी और परीक्षण करेगा।

भारतीय नौसेना के पास फिलहाल अरिहंत ही एक ऐसा परमाणु क्षमता वाला पोत है, जो परिचालन में है। के-4 उन दो अंडरवाटर मिसाइलों में से एक है, जिन्हें भारत नौसेना के लिए तैयार कर रहा है। दूसरी मिसाइल का नाम बीओ-5 है और उसकी रेंज 700 किलोमीटर है। परमाणु हमला करने में सक्षम इस मिसाइल की जद में पाकिस्तान, चीन एवं दक्षिण एशिया के कई देश आ गए हैं।

### जानिए, क्या होती है बैलिस्टिक मिसाइल

तकनीकी दृष्टिकोण से बैलिस्टिक मिसाइल उस प्रक्षेपास्त्र को कहते हैं जिसका प्रक्षेपण पथ सब ऑर्बिटल बैलिस्टिक पथ होता है। इसका उपयोग किसी हथियार (नाभिकीय अस्त्र) को किसी पूर्व निर्धारित लक्ष्य पर दागने के लिए किया जाता है। यह मिसाइल प्रक्षेपण के प्रारंभिक स्तर पर ही गाइड की जाती है। इसके बाद का पथ आर्बिटल मैकेनिक के सिद्धांतों पर एवं बैलिस्टिक सिद्धांतों से निर्धारित होता है। अभी तक इसे रासायनिक रॉकेट इंजन से छोड़ा जाता था।

<https://www.jagran.com/news/national-for-second-time-in-last-six-days-india-today-successfully-test-fired-the-3-500-km-strike-range-k-4-submarine-launched-ballistic-missile-off-coast-of-vishakhapatnam-19967714.html>

## India successfully test-fires K-4 submarine launched nuclear capable missile

*The missile, developed by the DRDO, has a range of 3,500 km and it will be able to bring almost all parts of Pakistan and several areas of China within its reach, officials said. The missile was test-fired successfully for the second consecutive time in the last five days off the coast of Visakhapatnam, the officials said*

New Delhi: India on Friday successfully test-fired the K-4 nuclear capable submarine-launched ballistic missile off the coast of Visakhapatnam for the second time in the past five days, in a major milestone to augment its strategic arsenal and delivery systems.

The missile, developed by the DRDO, has a range of 3,500 km and it will be able to bring almost all parts of Pakistan and several areas of China within its reach, officials said.

The missile is being developed for integration with India's Arihant class nuclear submarines.

The missile was test-fired successfully for the second consecutive time in the last five days off the coast of Visakhapatnam, the officials said.

It was test-fired from an underwater platform, they added.

India has been steadily enhancing its strategic weapons which included successful test-firing of nuclear-capable inter-continental ballistic missile Agni 5 with a range of over 5,000 km.

In November, India conducted successful night trial of 'Agni-II' surface-to-surface medium range nuclear capable missile with a strike range of 2000 km.

<https://economictimes.indiatimes.com/news/defence/india-successfully-test-fires-k-4-submarine-launched-nuclear-capable-missile/articleshow/73591070.cms>

## Arihant's N-capable missile 'ready to roll'

*By Rajat Pandit*

New Delhi: India tested its nuclear capable K-4 submarine-launched ballistic missile (SLBM), designed to have a strike range of 3,500 km, for the second time in six days on Friday. The missile test, as the one conducted on January 19, was undertaken from an undersea platform in the shape of a submersible pontoon off the coast of Andhra Pradesh.

The solid-fuelled K-4 missile is being developed by DRDO to arm the country's nuclear-powered submarines in the shape of INS Arihant and its under-development sister vessels. INS Arihant, which became fully operational in November 2018 to complete India's nuclear triad, is currently armed with the much shorter K-15 missiles with a 750 km range.

"The K-4 is now virtually ready for its serial production to kick-off. The two tests have demonstrated its capability to emerge straight from underwater and undertake its parabolic trajectory," said a source.

India has the land-based Agni missiles, with the over 5,000-km Agni-V inter-continental ballistic missile now in the process of being inducted, and fighter jets jury-rigged to deliver nuclear weapons. But INS Arihant gives the country's deterrence posture much more credibility because nuclear-

powered submarines armed with nuclear-tipped missiles are considered the most secure, survivable and potent platforms for retaliatory strikes.

Once the K-4 missiles are inducted, they will help India narrow the gap with countries like the US, Russia and China, which have over 5,000-km range SLBMs. The K-4 missiles are to be followed by the K-5 and K-6 missiles in the 5,000-6,000 km range class.

The 6,000-tonne INS Arihant, which is propelled by an 83 MW pressurised light-water reactor at its core, in turn, is to be followed by INS Arighat, which was launched in 2017. The next generation of nuclear submarines, currently called S-4 and S-4\*, will be much larger in size.

<https://timesofindia.indiatimes.com/india/india-successfully-test-fires-k-4-submarine-launched-missile/articleshow/73589861.cms>



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## **DRDO to exhibit more than 500 products in defence expo**

New Delhi: The Defence Research and Development Organisation (DRDO) has decided to exhibit more than 500 products from all technology clusters in the five-day mega Defence Expo 2020 in line with the event's theme "Digital Transformation of Defence".

"The display of various indigenously-developed military systems and technologies by DRDO will bring alive the spirit of self-reliance and national pride at the forthcoming DefExpo 2020," the DRDO said in a statement.

The 11th edition of the biennial expo will be held at Lucknow from February 5 to February 9.

The DRDO's participation is marked with the live demonstration of the Advanced Towed Artillery Gun System (ATAGS), the Main Battle Tank (MBT) Arjun MK IA, the Wheeled Armoured Platform (WhAP), the Counter Mine Flail, the 15m Advanced Composite Modular Bridging System (ACMBS) and modular bridge.

DRDO will showcase over 23 products in the India Pavilion at DefExpo, which has been set up to showcase the combined strength of DRDO, public and private sector in defence manufacturing.

Disclaimer: This story has not been edited by Outlook staff and is auto-generated from news agency feeds. Source: IANS

<https://www.outlookindia.com/newscroll/drdo-to-exhibit-more-than-500-products-in-defence-expo/1716970>