



Successful Trials of ERASR

Why in News?

The [Indian Navy](#) successfully conducted user trials of the **Extended Range Anti-Submarine Rocket (ERASR)** from [INS Kavaratti](#).

- [Defence Research and Development Organisation \(DRDO\)'s Armament Research & Development Establishment \(ARDE\), Pune, Maharashtra](#), led the design and development of ERASR.

Key Points

- **ERASR**
 - **Key Features:**
 - ERASR is a completely **indigenous anti-submarine rocket** designed to neutralize underwater threats.
 - It is launched from onboard **in-real-life (IRL) systems** of Indian Naval Ships.
 - The system features a **twin-rocket motor configuration**, enabling it to meet a broad range of operational distances with **high accuracy and consistency**.
 - It uses an indigenously developed **Electronic Time Fuze** for precision engagement.
- **INS Kavaratti:**
 - **About:**
 - The Navy named INS Kavaratti after **Kavaratti, the capital of the Lakshadweep islands**.
 - It revives the legacy of the erstwhile **Arnala Class missile corvette INS Kavaratti (P 80)**, which played a key role in the [1971 Bangladesh Liberation War](#).
 - **Project 28 and ASW Capabilities:**
 - INS Kavaratti is the **fourth and final stealth corvette built under Project 28 (Kamorta Class)** by **Garden Reach Shipbuilders and Engineers (GRSE), Kolkata**.
 - It joins its **three sister ships**—INS Kamorta, INS Kadmat, and [INS Kiltan](#)—in the Eastern Naval Command (ENC).
 - **Strategic Importance:**
 - The ship significantly boosts India's **ASW (Anti-Submarine Warfare) capabilities**, especially amid rising Chinese submarine activity in the [Indian Ocean](#).
 - Its induction marks a strategic game-changer on the eastern seaboard.
 - **Stealth and Structural Innovation:**
 - INS Kavaratti features enhanced stealth capabilities, including reduced **Radar Cross Section (RCS)** through sloped surfaces and stealthy superstructure design.
 - Along with INS Kiltan, it is one of the first major Indian warships with a **carbon fibre composite superstructure**, offering high strength and reduced weight.
 - **Combat-Ready Design:**
 - The ship carries state-of-the-art systems to operate in **Nuclear, Biological, and Chemical (NBC) warfare conditions**.

- It integrates high-tech indigenous equipment such as **Combat Management System (CMS)**, **Torpedo Tube Launchers** and **Infra-Red Signature Suppression System**.

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