INS Dunagiri

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Why in News?

The Indian Navy received its latest indigenous stealth frigate, INS Dunagiri, under Project 17A, marking a major boost to Aatmanirbharta in warship building.

- **INS Dunagiri –** It is the *fifth stealth frigate under the Nilgiri-class* (Project 17A), which marks a major milestone in India's push for self-reliance in defence manufacturing.
- It showcases advanced design, stealth, firepower, automation, and survivability, standing as a symbol of Aatmanirbharta in warship building.
- **Built by** – Garden Reach Shipbuilders & Engineers Ltd, Kolkata.
- **Designed by** – Navy's Warship Design Bureau & overseen by the Warship Overseeing Team (Kolkata).
- **Historical Legacy** – Named after the *erstwhile INS Dunagiri* (Leander-class frigate) which served in the Indian Navy fleet from 1977–2010.
- **Indigenisation** – With an *indigenisation content of 75%,* the project has involved over 200 MSMEs & enabled employment generation of more than 5,000 personnel both directly & indirectly.

Key Features

- **Advanced Weapons & Sensors** – Fitted with a superior suite compared to the P17 (Shivalik) class.
- **Propulsion System** – Configured with Combined Diesel or Gas (CODOG) plants, using diesel engines and gas turbines to drive Controllable Pitch Propellers (CPP) on each shaft.
- **Automation & Crew Efficiency** – Equipped with a state-of-the-art Integrated Platform Management System (IPMS) to reduce crew workload.
- **Combat Capabilities –** The platform is equipped with a potent mix of advanced systems, including
    - Brahmos missiles, MFSTAR radar, the MRSAM complex,
    - A 76mm SRGM, close-in weapon systems (30mm and 12.7mm), and
    - Rocket and torpedo capabilities for robust anti-submarine warfare.
- **Operational Roles**
    - It serves as a multi-mission asset capable of air, surface, and sub-surface warfare,

- Enabling blue-water naval operations through sea control and denial strategies,
- Ensuring maritime security, surveillance, fleet escort missions, and providing humanitarian assistance and disaster relief (HADR).

Quick Fact

Project 17A
• It is a major Indian Navy initiative to construct seven *advanced stealth guided-missile frigates*, known as the Nilgiri-class. • These are *versatile multi-mission platforms that* represent a generational leap in indigenous shipbuilding, capable of meeting present and future maritime challenges with enhanced combat capability.

Reference

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