

INS Taragiri

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Why in News?

The Indian Navy is set to commission its latest stealth frigate INS Taragiri (F41) at Visakhapatnam.

- It is an indigenously built **stealth guided-missile frigate** under Project 17A.
 - 4th ship of the Project 17A class.

In F41, F represents frigate classification, and a frigate is generally a Medium-sized warship.

- **Built in** - Mazagon Dock Shipbuilders Limited (Mumbai), a defense public sector unit.
- **Supported by** - 200+ MSMEs and private sector players to achieve over 75% indigenous content.
- **Features** -
 - **Displacement** - 6,670 tonnes.
 - **Stealth Technology** -
 - Advanced hull shaping + radar-absorbing materials
 - Low radar, infrared, and acoustic signatures
 - Reduced Radar Cross Section
 - Low radar, infrared, and acoustic signatures
 - **Propulsion** - CODOG (Combined Diesel or Gas) system
 - Diesel → fuel efficiency
 - Gas turbine → high speed
 - **Automation** - Integrated Platform Management System (IPMS) that reduces crew workload.
 - **Combat Capabilities** - Missile Systems
 - Supersonic Surface-to-Surface Missiles

- Medium-range Surface-to-Air Missiles
- **Anti-Submarine Warfare (ASW)** - Advanced sonar & torpedo systems
- **Combat Management** - Integrated Combat Management System (CMS)
- **Network-Centric Warfare** - Real-time data sharing with naval & air assets
- **Helicopter Capability** - Operates multi-role helicopters (e.g., MH-60R).
- **Operational Roles**
 - Multi-dimensional warfare (air, surface, sub-surface).
 - Blue-water naval operations.
 - Sea control & sea denial strategies.
 - Maritime security & surveillance.
 - Fleet escort missions.
 - Humanitarian Assistance and Disaster Relief (HADR).
- **Strategic Significance -**
 - Enhances India's presence in the Indian Ocean Region (IOR).
 - Secures Sea Lines of Communication (SLOCs).
 - Strengthens Aatmanirbhar Bharat in defence manufacturing.
 - Reflects expansion of India's defence industrial ecosystem.
 - Supports India's transition into a blue-water navy.

Quick Facts

- **Project 17A (P17A)** - It involves the construction of 7 advanced guided-missile stealth frigates for the Indian Navy.
- It is designed for superior combat capability and low detectability.
- It is designed by the Directorate of Naval Design (DND).
- Follow-on of Shivalik-class (Project 17).
- Ships named after Indian mountain ranges (Taragiri, Nilgiri, Himgiri).

References

1. [PIB | INS TARAGIRI](#)
2. [TOI | INS TARAGIRI](#)



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