

INS Nirdeshak

December 17, 2024 • vajiramandravi.com



About INS Nirdeshak:

- **INS Nirdeshak** is the **second ship** under the **Survey Vessel (Large) Project** of the **Indian Navy**.
- It is designed to conduct **hydrographic surveys**, assist in **navigation**, and support **maritime operations**.
- It is built by **Garden Reach Shipbuilders and Engineers (GRSE), Kolkata**.
- It reflects India's commitment to **Aatmanirbhar Bharat** (self-reliant India) with over **80% indigenous content**.
- **Legacy:** **INS Nirdeshak** represents the **reincarnation** of the **erstwhile INS Nirdeshak**, which served the Indian Navy for **32 years** with distinction until its **decommissioning on December 19, 2014**.
 - The name '**Nirdeshak**', meaning '**Pathfinder**', signifies its role in charting the seas with precision.

Key Specifications:

- **Displacement:** Approx. **3400-3800 tons**.
- **Length:** **110 meters**.

- **Speed:** Capable of achieving speeds **exceeding 18 knots**.
 - **Endurance:** Can remain at sea for **over 25 days**.
 - **Propulsion:**
 - It is driven by **two marine diesel engines**.
 - It is equipped with **fixed-pitch propellers**.
 - **Construction Technology:**
 - Built using **'Integrated Construction' technology**.
 - Adheres to standards of the **Indian Register of Shipping (IRS)**.
 - **State-of-the-Art Equipment:** INS Nirdeshak is equipped with advanced **hydrographic and oceanographic** survey systems to conduct precise underwater mapping:
 - **Hydrographic Data Acquisition and Processing Systems**.
 - **Advanced Satellite-Based Navigation and Communication Systems**.
 - **Sub-surface Sensors** for detailed underwater terrain charting.
 - **Autonomous Underwater Vehicles (AUVs)** and **Remotely Operated Vehicles (ROVs)**.
 - These technologies enable **high-accuracy hydrographic surveys**, making the vessel a key asset for the Navy.
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Q1. What is INS Vikrant?

It is India's first indigenously designed and manufactured aircraft carrier and has been designed in-house by the Indian Navy's Warship Design Bureau and constructed by M/s Cochin Shipyard Limited.

News: How INS Nirdeshak, to be commissioned soon, is set to enhance maritime dominance of Indian Navy in Indian Ocean Region- The Week

Source: <https://vajiramandravi.com/current-affairs/ins-nirdeshak/>

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