

What is INS Triput?

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About INS Triput:

- It is the **first indigenously built Talwar-class frigate**.
- **Project:**
 - In October 2016, **India and Russia** signed a **deal to buy four stealth frigates** of the Admiral Grigorovich class (also known as **Project 1135.6 class**).
 - **Two of these** frigates, '**Tushil**' and '**Tamal**', **will be directly imported**, and the remaining **two frigates** will be **built in India by GSL through a transfer of technology (ToT)**.
 - **Triput** is the **first ship built by GSL** under this. The **second frigate, 'Tamal'**, will be delivered by February 2025.
- The Indian Navy already operates six ships of this class: INS Talwar, **INS Trishul**, INS Tabar, **INS Teg**, INS Tarkash, and INS Trikand.
- **Features of INS Triput:**
 - The 124-m-long and 15.5-m-wide ship is **propelled by four gas turbines** which are designed to achieve a maximum speed of 28 Knots at a displacement of approx. 3200 tons.
 - It features a **hull design** that **reduces radar cross-section**, contributing to their **stealth capabilities**.
 - The ship is being fitted with a potent combination of **state-of-the-art weapons** and sensors, an **Integrated Platform and Bridge Management System**, and a host of other advanced features.
 - The ship's air defence capability, designed to counter enemy aircraft and anti-ship cruise missiles, will revolve around **vertical launch long range Surface to Air missile system**.

- Further, the ship has been fitted with **indigenous power generation and distribution system**, AC, Steering System and Stabilisers designed and **developed by private industry**.
 - It is armed with the Russian-made Klub-N anti-ship missiles **or BrahMos supersonic cruise missiles**.
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Q1: What is BrahMos?

BrahMos is a supersonic cruise missile that can be launched from land, sea, and air. It has been developed by Brahmos Aerospace, a joint venture of India and Russia. It is a two-stage missile with a solid propellant booster engine as its first stage, which brings it to supersonic speed and then gets separated. The liquid ramjet, or second stage then takes the missile closer to 3 Mach speed in the cruise phase. It is one of the fastest cruise missiles currently operationally deployed, with a speed of Mach 2.8, which is nearly three times more than the speed of sound.

Source: Goa Shipyard Launches Advanced Talwar-Class Frigate 'Triput' As Russia Prepares To Deliver First Ship 'Tushil' In September

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