



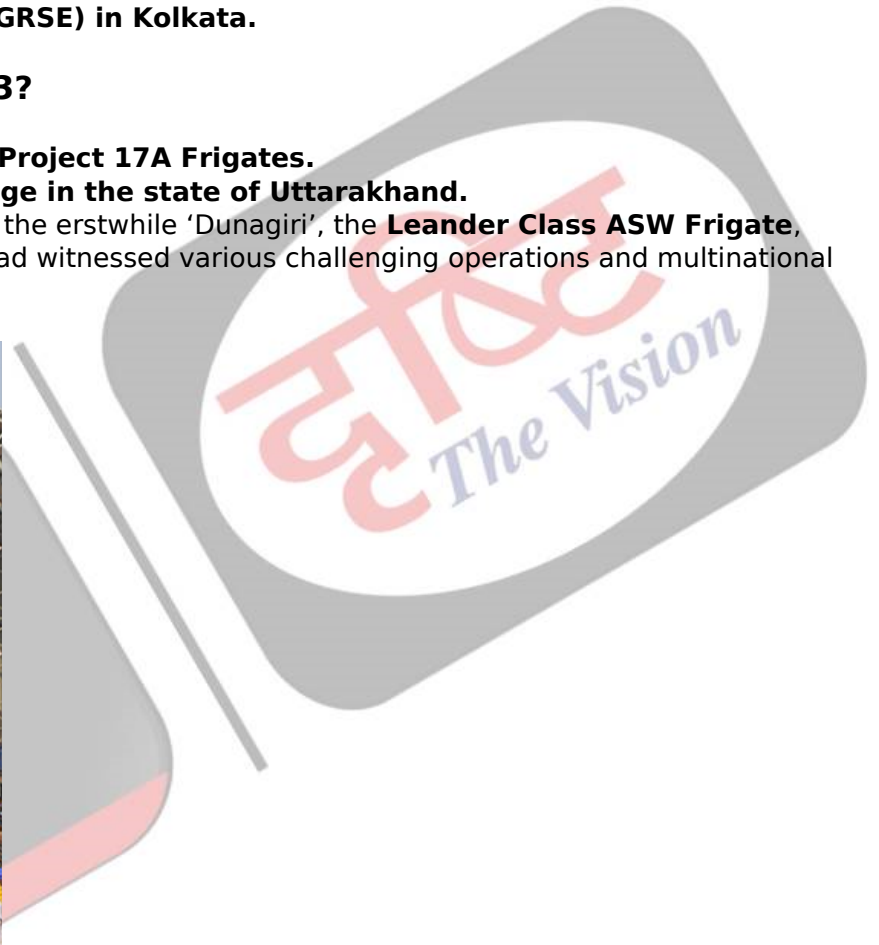
## Y - 3023 Dunagiri

### Why in News?

Recently, the Defence Minister of India launched **Y- 3023 Dunagiri**, a [Project 17A](#) frigate built by **Garden Reach Shipbuilders Limited (GRSE)** in Kolkata.

### What do we know about Y-3023?

- **'Dunagiri'** is the **fourth ship of Project 17A Frigates**.
- It is named after a **mountain range in the state of Uttarakhand**.
- **'Dunagiri'** is the reincarnation of the erstwhile 'Dunagiri', the **Leander Class ASW Frigate**, which in her 33 years of service had witnessed various challenging operations and multinational exercises.



### What do we know about Project 17A Frigates?

- **About:**
  - Project 17A frigates are **follow-on of the P17 Frigates (Shivalik Class)** with improved stealth features, advanced weapons and sensors and platform management systems.
  - There will be **seven frigates built under P-17 A for the Indian Navy** which will be equipped with advanced stealth capability, four at Mazagon Dock Shipbuilders (MDL), Mumbai and three at Garden Reach Ship Builders Limited (GRSE), Kolkata.
- **Features:**

- The main **advanced stealth features** of P-17A pertain to the **smaller Radar cross-section** of the ship achieved through the use of a special super structure shape which reduces radar wave reflections.
- The P17A frigates incorporate new design concepts for **improved survivability, sea keeping, stealth and ship manoeuvrability**.
- Another important feature is regarding the ship's **low acoustic noise emanating from propellers, operating machinery like Diesel Generators etc.**, which helps sonars on other ships to detect its presence.
  - Such stealth features play an important role in improving the ship's survivability in any hostile environment during operations.
- **Weapon Systems onboard:**
  - The main weapon and sensor suite of P-17A ships indicated are **BrahMos SSM, LRSAM (Forward & Aft configuration)** with **MF STAR radar, indigenous Sonar, and Triple tube Heavy Torpedo launcher**.
  - **The first three ships under Project 17A were:**
    - **INS Nilgiri**
    - INS Himgiri
    - **INS Udaygiri**

**Source: PIB**

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