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ISRO to Launch NVS-03 Navigation Satellite Aboard GSLV Rocket

ISRO scheduled the launch of the navigation satellite NVS-03 aboard the GSLV-F18 rocket on October 30, 2026.

NVS-03 is the third satellite in the next-generation navigation satellite series designed to ensure the continuity of services for India's regional navigation system (IRNSS).

KEY EXAM POINTS

- **ISRO** scheduled the launch of the NVS-03 satellite for **October 30, 2026**, using a GSLV rocket.
- This mission marks the **20th flight** of India's **Geosynchronous Satellite Launch Vehicle** (GSLV).
- The **GSLV-F18** vehicle will place the satellite into a **Geosynchronous Transfer Orbit** (GTO).
- The satellite carries an **indigenous atomic clock** along with procured atomic clocks for high-precision timing.
- NVS-03 includes the **L1 frequency band** in addition to existing L5 and S signals to provide location services over the Indian landmass and a **1500 km** surrounding region.

DID YOU KNOW..!?

ISRO was established on **August 15, 1969**, with its headquarters located in **Bengaluru**, Karnataka.

The Indian Regional Navigation Satellite System (**IRNSS**), also known as **NavIC**, provides operational satellite-based navigation services across India.

The Geosynchronous Satellite Launch Vehicle (**GSLV**) is a three-stage launch vehicle utilizing solid, liquid, and **cryogenic stages**.

The **Satish Dhawan Space Centre** (SDSC), **Sriharikota**, serves as the primary spaceport for launching Indian satellite missions.

URSC (U R Rao Satellite Centre) located in **Bengaluru** is responsible for designing, developing, and constructing all Indian satellites.

India's indigenous cryogenic upper stage was successfully flight-tested for the first time on the **GSLV-D5** mission in **January 2014**.

REVISION FLASHCARD

ISRO's NVS-03 navigation satellite is launched aboard the GSLV rocket to support the IRNSS system.

Syllabus Relevance: Highly relevant for TNPSC Unit 2 (Current Events - Space Missions and ISRO achievements).

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