

What is GSAT 7B?

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About GSAT 7B:

- It is a **communication satellite** part of the **GSAT-7 series**.
- GSAT 7 series satellites are **advanced communication satellites developed by the Indian Space Research Organisation (ISRO)** to meet the **communication needs of the defence services**.
- The GSAT 7B will **primarily fulfil the communication needs of the Indian Army**.
- It is a geostationary satellite which will considerably **enhance the communication capability of the Indian Army** by providing mission-critical beyond-the-line-of-sight communication to troops and formations as well as weapon and airborne platforms.
- It is the **first-ever in the five-tonne category** that will be designed indigenously **by the ISRO**.

GSAT 7 Series Satellites:

- **GSAT-7 (Rukmini):**
 - It is **India's first military satellite**.
 - It was **launched in August 2013** from an Ariane 5 ECA rocket from Kourou in French Guiana.
 - It is an **advanced communication satellite** developed by ISRO and primarily provides **communication services to the Indian Navy**.

- **GSAT 7A:**

- It primarily provides communication **services to the Indian Air Force.**
- **It also helps in** satellite-controlled **operations of UAVs.**

Q1) What is a Geostationary Orbit?

Geostationary orbit is a type of geosynchronous orbit of a satellite whereby it moves with the same speed as the rotation of the Earth. Because it orbits at the same speed as Earth revolves, a geostationary satellite seems to be stationary if seen from the surface of the Earth.

Source: [After Navy & IAF, Army to get dedicated satellite Gsat-7B as MoD inks Rs 3k cr deal with NSIL](#)

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