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ISRO launches advanced GSAT-7R, India's heaviest communication satellite

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Indian Space Research Organisation (ISRO) launched Indian Navy's GSAT-7R (CMS-03) communication satellite today, 02 Nov 2025.

About GSAT-7R

GSAT-7R, also called **CMS-03**, is a next-generation military communication satellite developed by ISRO to replace the aging **GSAT-7A**.

The **indigenously** designed and developed satellite was launched from the Satish Dhawan Space Centre in Sriharikota.

Launched by the **Launch Vehicle Mark-3 (LVM3)** from Sriharikota and placed in a Geosynchronous **Transfer Orbit (GTO)**

This would be the most advanced communication satellite thus far for the **Indian Navy**. The satellite would strengthen Navy's space-based communications and maritime domain awareness capabilities.

This satellite is **the India's heaviest communication** satellite till date, weighing approximately **4,400 kg**, and includes many indigenous state-of-the-art components developed specifically to meet the Indian Navy's operational requirements.

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