



GSAT-29 has a perfect launch

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Why in News?

India has launched the country's heaviest satellite called GSAT-29 to be carried on board an indigenous rocket from Indian soil known as GSLV-MkIII D2 .

Importance of this launch

- The first operational mission of this vehicle (GSLV-MkIII) is going to be none other than the Chandrayaan-II mission.
- This vehicle is going to carry a human to space in 2021-2022.
- The communication satellite, weighing 3,423 kg is a multiband, multi-beam communication satellite, intended to serve as test bed for new and critical technologies.
- The Ku-band and Ka-band payloads are expected to cater to communication requirements for people in remote areas in the country, especially Jammu and Kashmir, and the North-East.

About GSLV Mk III

- GSLV Mk III is a three-stage heavy lift launch vehicle developed by the Indian Space Research Organisation (ISRO).
- Two massive boosters with solid propellant constitute the first stage, the core with liquid propellant form the second stage and the cryogenic engine completes the final stage.
- It is designed to launch satellites into geostationary orbit and is intended as a launch vehicle for crewed missions under the Indian Human Spaceflight Programme.
- ISRO successfully conducted the first orbital test launch of GSLV-III

on 5 June 2017 after several delays.

- An Indian foray into human spaceflight in 2022 with the aim of sending a crewed spacecraft called Gaganyaan to low Earth orbit. The GSLV Mk III will be the launch vehicle for this mission.

The Hindu

