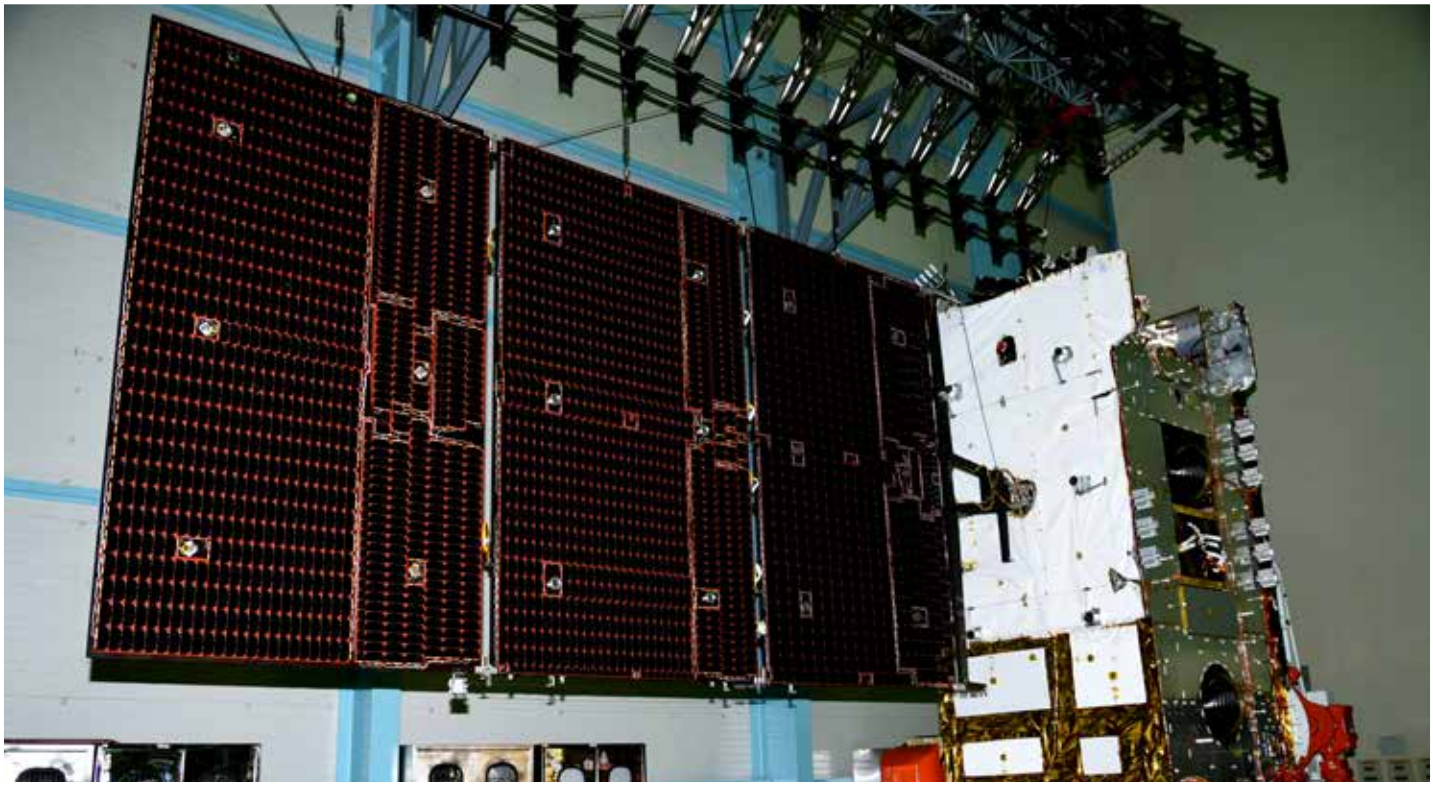
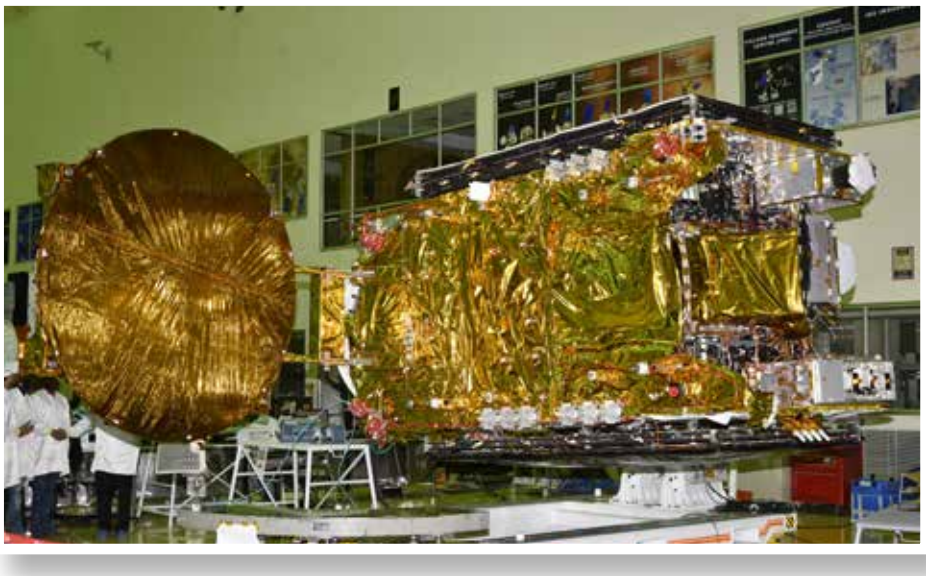
GSAT-31 Mission

06 February, 2019

THE MISSION

India's Telecommunication Satellite GSAT-31 on-board the Ariane-5 VA-247 lifted-off from Kourou, French Guiana at 02:31 AM (IST) on February 06, 2019. After a 42 minute flight, GSAT-31 separated from the Ariane-5 upper stage in an elliptical Geosynchronous Transfer Orbit with a perigee (nearest point to Earth) of 250 km and an apogee (farthest point to Earth) of 35,850 km inclined at an angle of 3.0^0 to the Equator. The ISRO scientists undertook phase-wise orbit-raising manoeuvres to place the satellite in Geostationary Orbit (36,000 km above the Equator) using its on-board propulsion system. GSAT-31 will provide communication services to Indian mainland and islands.





Ariane-5

GSAT-31

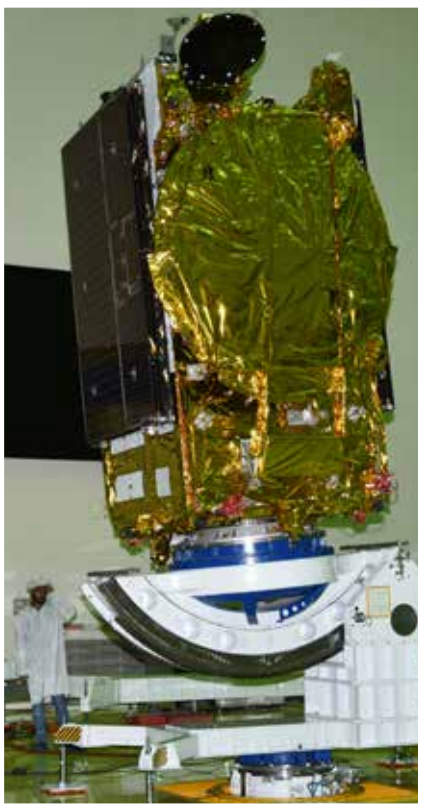
THE SATELLITE

GSAT-31 is the 40th Communication Satellite of India. This satellite is configured on ISRO's enhanced I-2K Bus, utilising the maximum bus capabilities of this type. This satellite will augment the Ku-band transponder capacity in Geostationary Orbit.

It will provide continuity to operational services on some of the in-orbit satellites. The satellite derives its heritage from ISRO's earlier INSAT / GSAT satellite series.

GSAT-31 has a unique configuration of providing flexible frequency segments and flexible coverage. It will provide DTH Television Services, connectivity to VSATs for ATM, Stock-exchange, Digital Satellite News Gathering (DSNG) and e-governance applications.

It also provides widebeam coverage facilitate communication over larger oceanic region comprising large parts of Arabian Sea, Bay of Bengal and Indian Ocean using a wide band transponder. Two Ku-band beacon downlink signals are transmitted for ground tracking purpose.



SPECIFICATIONS

Weight	2536 kg
Power	4.7 kW
Stabilization	3-axis
Type of Satellite	Communication
Payloads	Ku-band Transponders
Mission Life	Around 15 Years