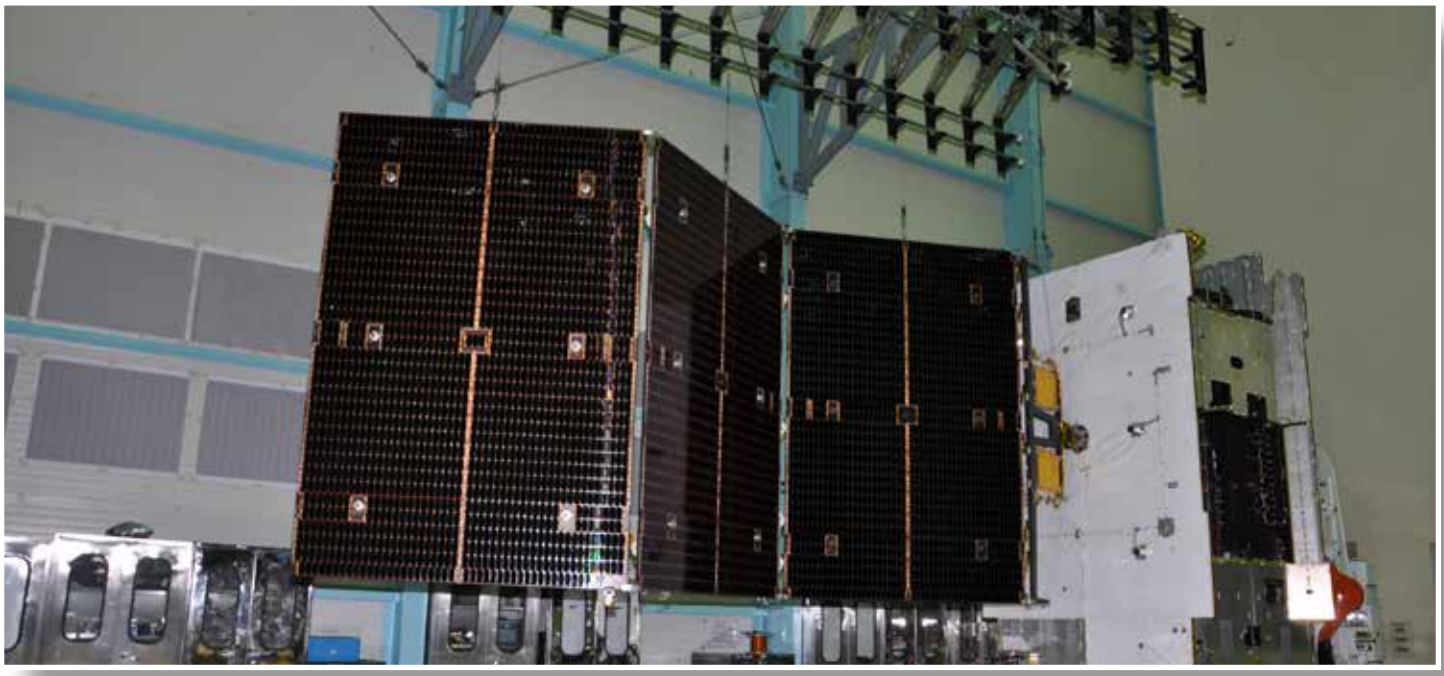
GSAT-17 Mission

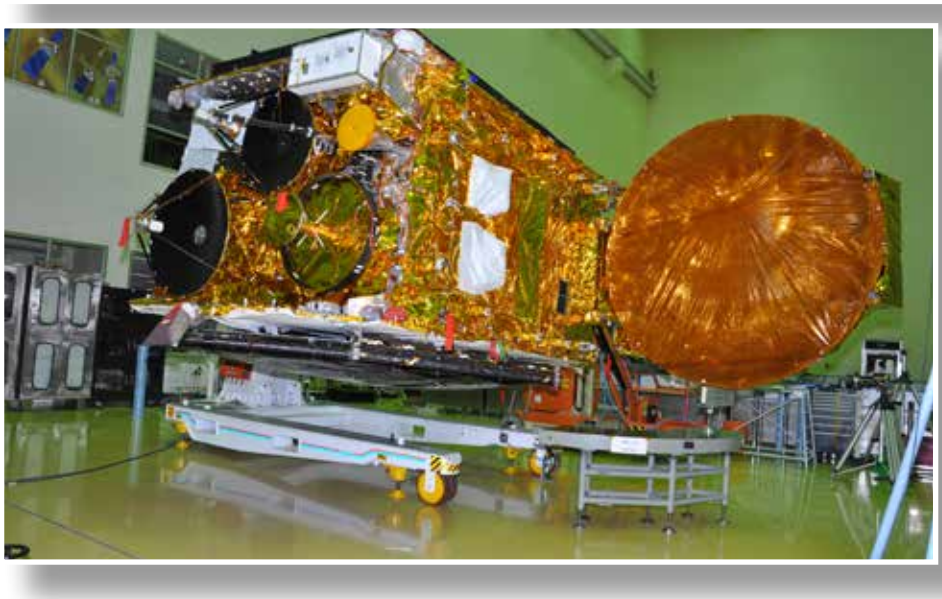
29 June, 2017

THE MISSION

India's Telecommunication Satellite GSAT-17 on-board the Ariane-5 VA-238 lifted-off from Kourou, French Guiana at 2:45 AM (IST) on June 29, 2017. About 39 minutes after lift-off, GSAT-17 separated from the Ariane 5 upper stage in an elliptical Geosynchronous Transfer Orbit (GTO) with a perigee of 249 km and an apogee of 35,920 km, inclined at an angle of 3^0 to the Equator. ISRO's Master Control Facility (MCF) at Hassan took control of GSAT-17 and performed the initial orbit raising manoeuvres using the Liquid Apogee Motor (LAM) of the satellite placing it in circular Geostationary Orbit.

GSAT-17 is designed to provide continuity of services on operational satellites in C-band, Extended C-band and S-bands. The services provided by this satellite will include Communication, Meteorological Data Relay and satellite based Search and Rescue.





Ariane-5

GSAT-17

THE SATELLITE

GSAT-17 is the latest satellite inducted into the INSAT / GSAT system. It carries Payloads in Normal C-band, Extended C-band and S-band to provide various communication services. It also carries equipment for Meteorological Data Relay and satellite based Search and Rescue services being provided by earlier INSAT satellites.

The deployment of appendages such as the solar arrays and antennas as well as three axis stabilisation of the satellite was performed during the final stages of orbit raising. This was followed by the positioning of the satellite in its designated Geostationary Orbital slot. After the successful completion of all the in-orbit tests, GSAT-17 was ready for operational use.

SPECIFICATIONS

Weight	3477 kg
Power	6200 W from Solar Arrays, Two 144 Ah Li-Ion batteries
Stabilisation	3-axis body stabilized
Type of Satellite	Communication
Payloads	• Normal C-band • Extended C and S-bands
Mission Life	15 Years