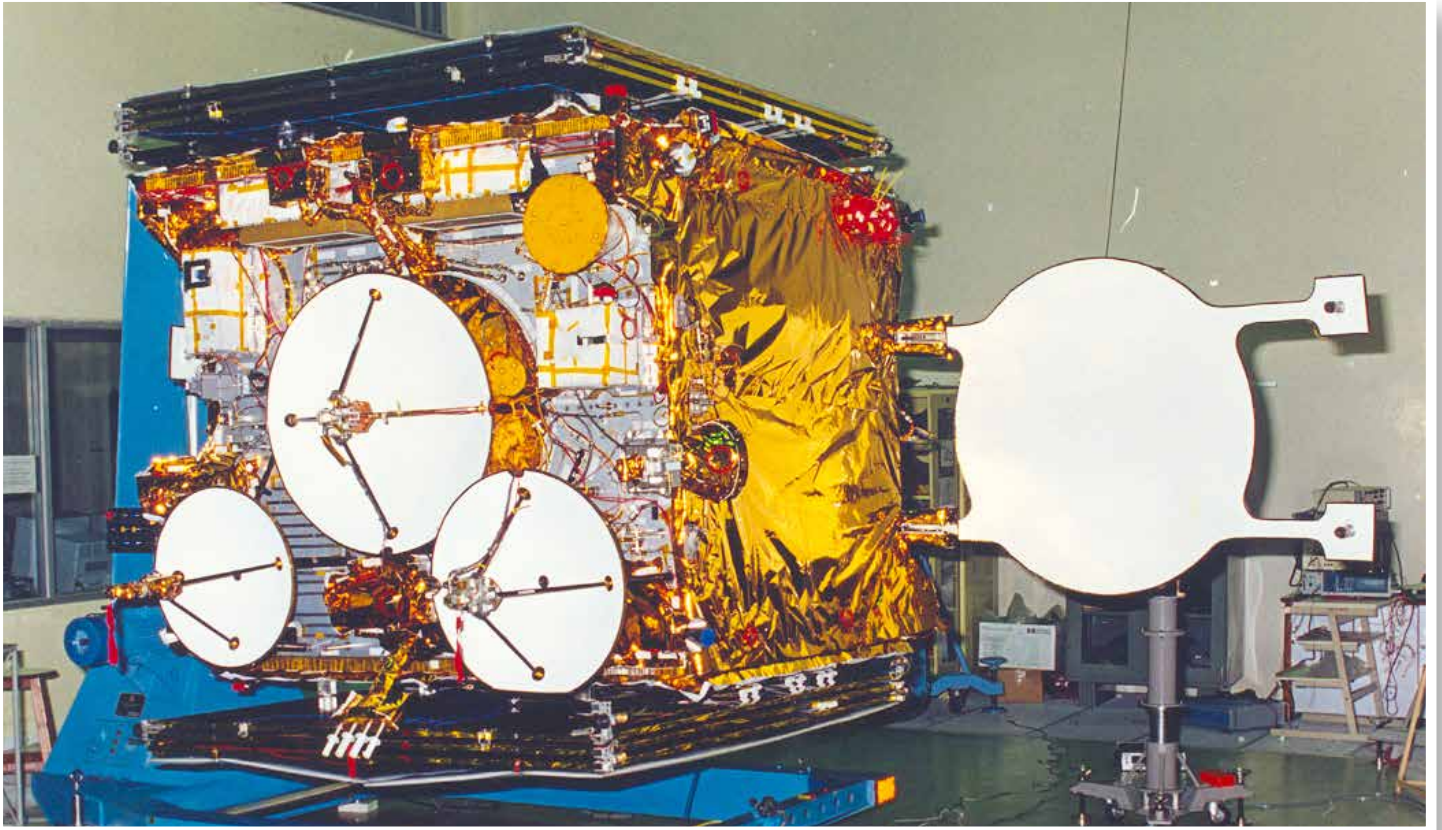


INSAT-3B Mission

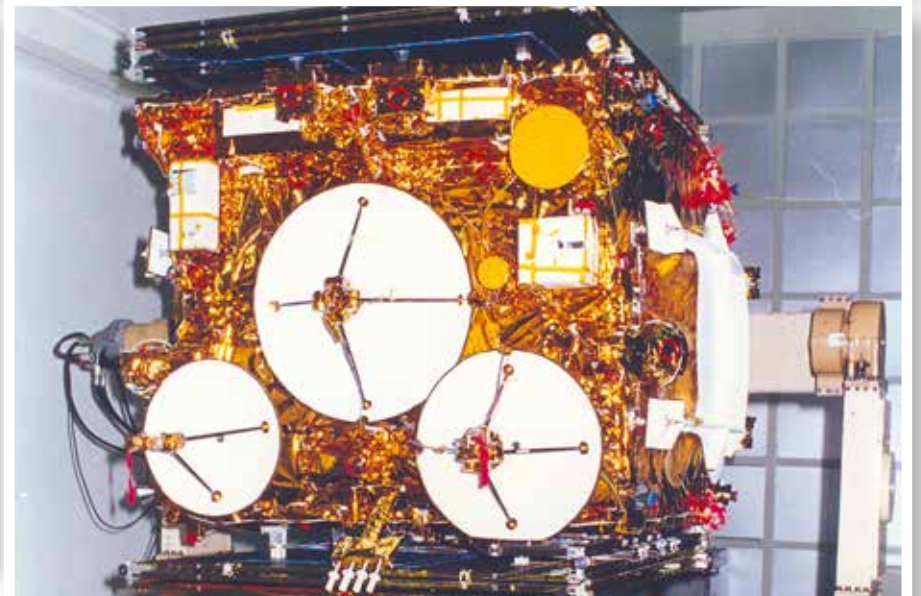
22 March, 2000

THE MISSION

The Indian National Satellite (INSAT-3B) on-board the Ariane-5 lifted-off from Kourou, French Guiana on March 22, 2000. INSAT-3B was the first of the five ISRO built satellites under INSAT-3 series to join INSAT system. The satellite primarily serves to business communication, mobile communication and developmental communication.



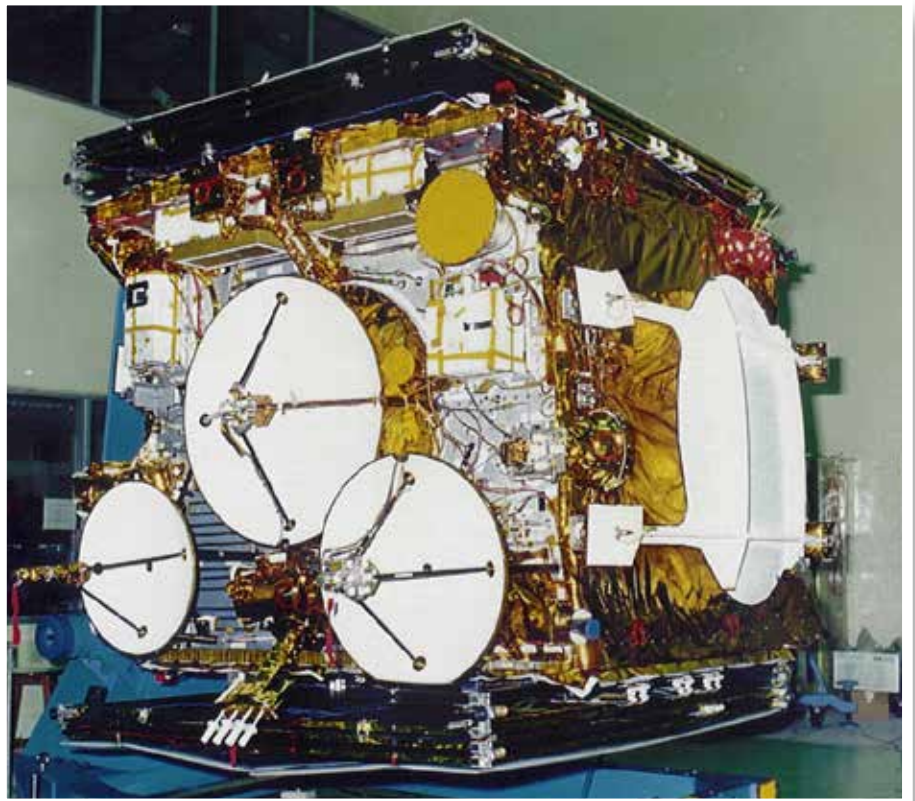
Ariane-5



INSAT-3B

THE SATELLITE

INSAT-3B was successfully launched to cater to the immediate requirement of extended C-band capacity that was depleted due to INSAT-2D failure. The satellite was developed in a short period in a fast-track mode of development. INSAT-3B was co-located with INSAT-2E at 83° East Longitude. It carried 12 extended C-band transponders, 3 Ku-band transponders and S-band mobile satellite service payloads. The satellite served its intended purpose of providing Very Small Aperture Terminal (VAST) services. It provided the first set of transponders for Swarn Jayanti Vidya Vikas Antariksh Upagraha Yojana (VidyaVahini) for interactive training and developmental communication giving fillip to the training and developmental communication channel of INSAT.



SPECIFICATIONS

| | |
|--------------------------|---|
| Weight | 2070 kg |
| Power | 1712 W |
| Stabilization | 3-axis body stabilized biased Momentum Control System Using Earth Sensors, Sun Sensors, Inertial Reference Unit, Momentum / Reaction Wheels, Magnetic Torquers And Unified Bi-Propellant Thrusters. |
| Type of Satellite | Communication |
| Payloads | <ul style="list-style-type: none">• 12 Extended C-band Transponders• 5 Ku-band Transponders• Mobile Satellite Services (MSS) |
| Mission Life | 10 Years |

