

PSLV-C12 / RISAT-2 & ANUSAT Mission

20 April, 2009

THE MISSION

PSLV-C12 carrying on-board the Radar Imaging Satellite RISAT-2 & Microsatellite ANUSAT lifted-off from the Satish Dhawan Space Centre (SDSC) SHAR, Sriharikota at 6:45 AM (IST) on April 20, 2009. The main payload, RISAT-2, was the first satellite to be separated in orbit at 1100 seconds after lift-off at an altitude of 550 km with an inclination of 41° to the Equator. About 60 seconds later, ANUSAT was separated.

PSLV - C 1 2

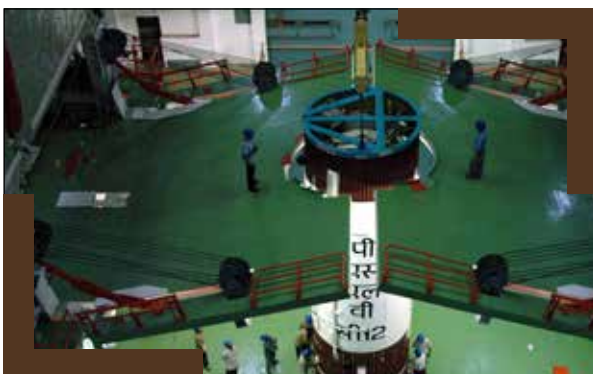
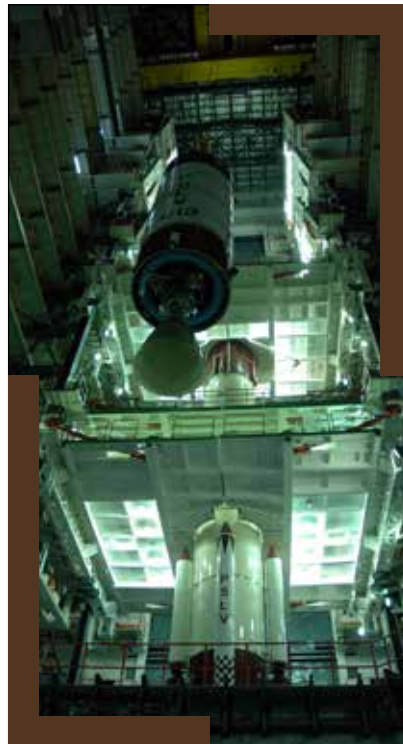
THE LAUNCH VEHICLE

The 44 m tall PSLV-C12 weighing 230 tonne was launched from the Second Launch Pad (SLP) at SDSC SHAR in the 'Core-alone' configuration without the use of six solid strap-ons. PSLV is a four stage launch vehicle employing both solid and liquid propulsion stages.

With this successful launch, the versatility and the reliability of PSLV has been proved again underscoring its importance as the workhorse Launch Vehicle of India.

SPECIFICATIONS

Height	44 m
Lift-Off Mass	230 t
No of Stages	4
Payloads	<ul style="list-style-type: none"> • RISAT-2 • ANUSAT
Orbit Height	550 km
Inclination (deg)	41°
Launch Pad	Second Launch Pad (SDSC, SHAR)



RISAT-2

THE SATELLITE

RISAT-2 is a Radar Imaging Satellite with the capability to take images of the Earth during day and night as well as cloudy conditions. At the time of launch, RISAT-2 weighed about 300 kg and was realised by ISRO in association with Israel Aerospace Industries. The satellite had an orbital period of about 90 minutes. This satellite will enhance ISRO's capability for Earth Observation, especially during floods, cyclones, landslides and in disaster management in a more effective way.

SPECIFICATIONS

Weight	300 kg
Type of Satellite	Earth Observation
Payloads	X-SAR
Mission Life	5 Years



ANUSAT

THE MICROSATELLITE

ANUSAT (Anna University Satellite) is the first satellite built by an Indian University under the overall guidance of ISRO and demonstrating the technologies related to message store and forward operations.

SPECIFICATIONS

Weight	40 kg
Type of Satellite	Student Satellite

