

SLV-3 / Rohini Satellite RS-D2 Mission

17 April, 1983

THE MISSION

SLV-3 carrying on-board the Rohini Satellite RS-D2 lifted-off from the Satish Dhawan Space Centre (SDSC) SHAR, Sriharikota on April 17, 1983. The satellite had broadcast more than 5000 reflections and provided data on symptom classification and also was carrying Remote Sensing Sensors.

SLV - 3

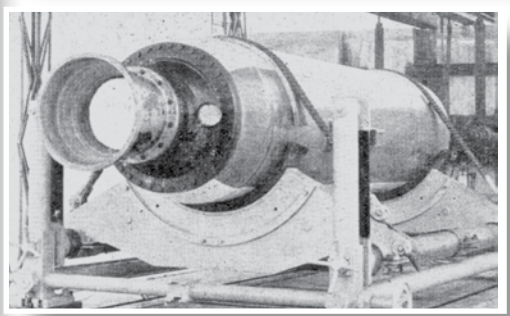
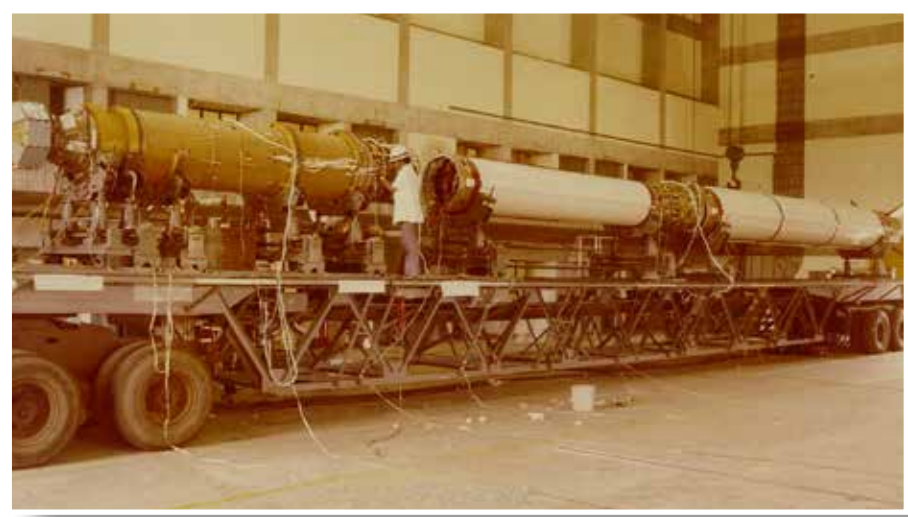
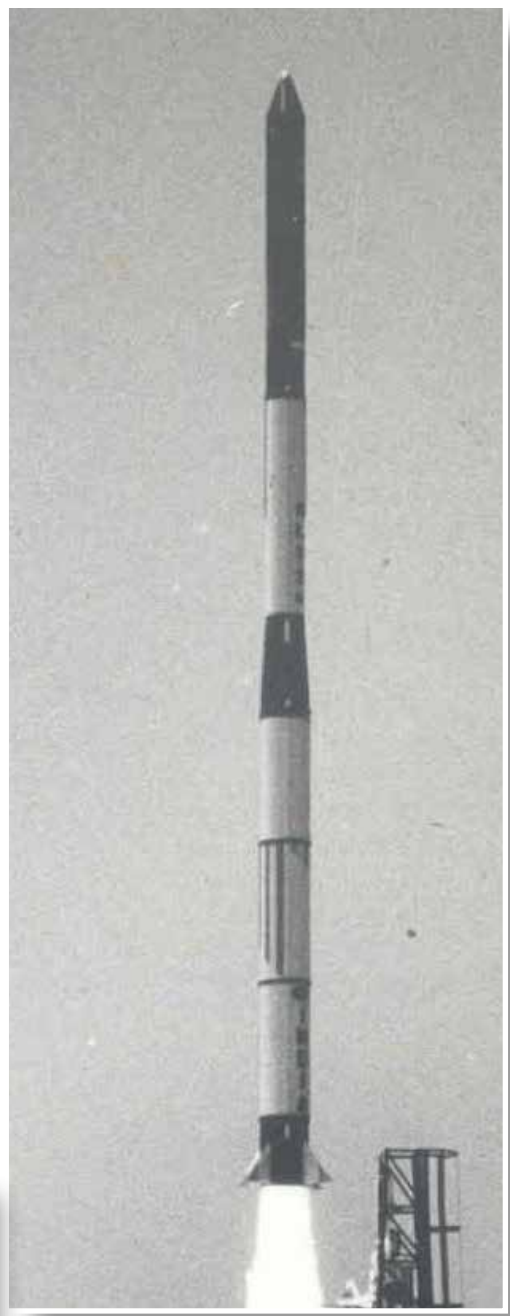
THE LAUNCH VEHICLE

SLV-3 was the developmental flight and an all solid, four stage launch vehicle weighing 17 tonnes with a height of 22 m and capable of placing 40 kg class payloads in Low Earth Orbit (LEO).

The successful culmination of the SLV-3 project showed the way to advanced launch vehicle projects such as the Augmented Satellite Launch Vehicle (ASLV), Polar Satellite Launch Vehicle (PSLV) and the Geosynchronous Satellite Launch Vehicle (GSLV).

SPECIFICATIONS

Height	22 m
Lift-Off Mass	17 t
No of Stages	4
Payloads	Rohini Satellite RS-D2



ROHINI SATELLITE RS-D2

THE SATELLITE

RS-D2 was a 41.5 kg experimental spin-stabilized satellite designed with a power handling capability of 16 W. The Smart Sensor Camera was the primary payload on-board the satellite. It has sent more than 5000 pictures frames in both visible and infrared bands for identification of features and demonstrated the technique of determination of attitude and orbit using images. The camera had on-board processing capability to use the data for classifying ground features like water, vegetation, bare land, clouds and snow. RS-D2 had an orbital life of 7 years (re-entered on April 19, 1990).

SPECIFICATIONS

Weight	41.5 kg
Power	16 W
Stabilization	Spin-stabilized Sensors: Horizon Crossing Sensor, Twin Slit Sun Sensor, Magnetometer
Type of Satellite	Earth Observation
Payloads	<ul style="list-style-type: none">• Smart Sensor (Remote Sensing Payload)• L-band Beacon
Mission Life	17 months

