

SLV-3D1 / Rohini Satellite RS-D1 Mission

31 May, 1981

THE MISSION

SLV-3D1 carrying on-board the Rohini Satellite RS-D1 lifted-off from the Satish Dhawan Space Centre (SDSC) SHAR, Sriharikota on May 31, 1981. The mission formed the basis for the advanced sensor development leading to operational applications for Remote Sensing.

SLV - 3 D 1

THE LAUNCH VEHICLE

SLV-3D1 was 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 Satellite Launch Vehicle (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-D1
Orbit Height	186 km
Inclination (deg)	46°
Apogee	418 km
Perigee	186 km



ROHINI SATELLITE RS-D1

THE SATELLITE

RS-D1 was a 38 kg Experimental Spin-stabilized Satellite designed with a power handling capability of 16 W. The launch was a partial success as the satellite did not reach the intended height and thus it stayed in orbit for only 9 days. The satellite carried a solid state camera using linear array of detectors for Remote Sensing Applications.

SPECIFICATIONS

Weight	38 kg
Power	16 W
Stabilization	Spin-stabilized
Type of Satellite	Earth Observation
Payloads	Landmark Tracker (Remote Sensing Payload)
Mission Life	9 Days

