

SLV-3E2 / Rohini Satellite RS-1 Mission

18 July, 1980

THE MISSION

SLV-3E2 carrying on-board the Rohini Satellite RS-1 lifted-off from the Satish Dhawan Space Centre (SDSC) SHAR, Sriharikota on July 18, 1980. All the fourth stage parameters of SLV-3 were successfully telemetered to the ground stations by RS-1 during the launch phase.

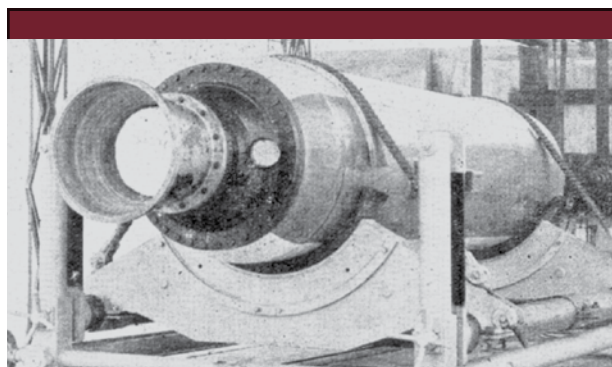
SLV-3E2

THE LAUNCH VEHICLE

Satellite Launch Vehicle-3 (SLV-3E2) was a 22 m long, all solid, four stage vehicle weighing 17 tonnes capable of placing 40 kg class payloads in Low Earth Orbit (LEO).

SPECIFICATIONS

Height	22 m
Lift-Off Mass	17 t
No of Stages	4
Payloads	Rohini Satellite RS-1
Inclination (deg)	44.7°
Apogee	919 km
Perigee	305 km



ROHINI SATELLITE RS-1

THE SATELLITE

RS-1 was a 35 kg Experimental Spin-stabilized Satellite designed with a power handling capability of 16 W. It was successfully injected into an orbit of 305 x 919 km with an inclination of 44.7°. The satellite had an orbital life of 9 months. The satellite carried Digital Sun Sensor, Magnetometer and Temperature Sensors. The structure was made of Aluminium Alloy.

SPECIFICATIONS

Weight	35 kg
Power	16 W
Stabilization	Spin-stabilized
Type of Satellite	Experimental
Payloads	Launch Vehicle Monitoring Instruments
Mission Life	1.2 Years (14 months)

