

PSLV-C42 Mission

Commercial Satellite Launch

16 September, 2018

THE MISSION

PSLV-C42 carrying on-board NovaSAR and S1-4 Satellites lifted-off from the Satish Dhawan Space Centre (SDSC) SHAR, Sriharikota at 10.08 PM (IST) on September 16, 2018. It was a commercial mission which launched two foreign satellites. About 17 minutes after lift-off, the satellites were injected into the Sun-synchronous Orbit, at an altitude of 583 km. Both satellites together weigh 889 kg.

NovaSAR was a S-Band Synthetic Aperture Radar Satellite intended for forest mapping, land use & ice cover monitoring, flood & disaster monitoring.

S1-4 was a high resolution Optical Earth Observation Satellite, used for surveying resources, environment monitoring, urban management and disaster monitoring.



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THE LAUNCH VEHICLE

The mission employs PSLV 'Core-alone' configuration. It was the 12th flight of the Core-alone version of the vehicle without the six strap-on motors. It is also the 44th flight of PSLV.

SPECIFICATIONS

Height	44.4 m
Lift-Off Mass	230.4 t
No of Stages	4
Payloads	2 International Customer Satellites United Kingdom (2)
Orbit Height	583 km
Inclination (deg)	97.806°
Launch Azimuth	140°
Launch Pad	First Launch Pad (SDSC, SHAR)



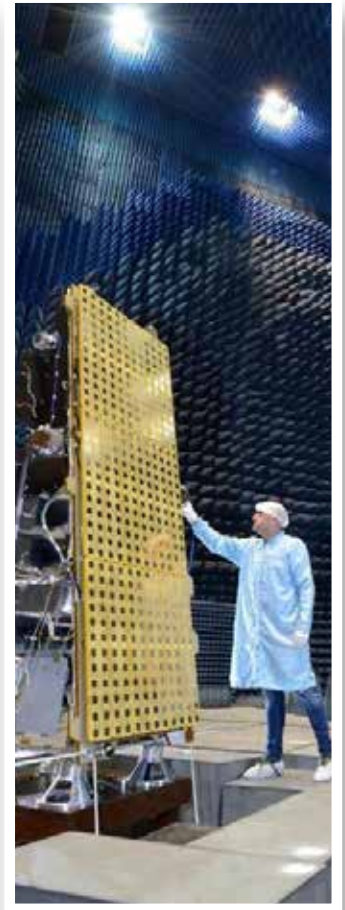
NovaSAR

THE SATELLITE

NovaSAR is a small satellite mission designed to test the capabilities of a new low-cost S-band Synthetic Aperture Radar satellite intended for forest mapping, land use & ice cover monitoring, flood & disaster monitoring and ship detection and maritime monitoring.

SPECIFICATIONS

Weight	445 kg
Power	800 W
Type of Satellite	Earth Observation
Payloads	<ul style="list-style-type: none">• S-band Synthetic Aperture Radar• Automatic Identification Receiver



S1-4

THE SATELLITE

S1-4 is a high resolution Optical Earth Observation Satellite, used for surveying resources, environment monitoring, urban management and for disaster monitoring.

SPECIFICATIONS

Weight	444 kg
Power	800 W
Type of Satellite	Earth Observation

