

PSLV-C44 SUCCESSFULLY LAUNCHES MICROSAT-R AND KALAMSAT-V2

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Department of Space

PSLV-C44 successfully launches Microsat-R and Kalamsat-V2

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India's Polar Satellite Launch Vehicle (PSLV-C44) successfully injected Microsat-R and Kalamsat-V2 satellites into their designated orbits. The PSLV-C44 lifted off at 23:37 Hrs (IST) on January 24, 2019 from the First Launch Pad at Satish Dhawan Space Centre SHAR, Sriharikota in its 46th flight.

About 13 minutes 26 seconds after lift-off, Microsat-R was successfully injected into intended orbit of 274 km. After injection, two solar arrays of the satellite were deployed automatically and ISRO Telemetry Tracking & Command Network (ISTRAC) at Bengaluru assumed control of the satellite.

Subsequently, the fourth stage (PS4) of the vehicle was moved to a higher circular orbit of 453 km after two restarts of the stage, to establish an orbital platform for carrying out experiments. Kalamsat-V2, a student payload, first to use PS4 as an orbital platform, was taken to its designated orbit about 1 hour and 40 minutes after lift-off.

This flight marked the first mission of PSLV-DL, a new variant of PSLV with two strap-on motors.

In the previous PSLV launch on November 29, PSLV-C43 had successfully launched India's HysIS as well as 30 customer satellites from abroad.

In his post-launch address, Chairman Dr K Sivan said the PSLV-C44 mission was unique as it was for the first time ISRO used the last stage of the rocket as a platform to perform experiments in space.

"I hope the student community will make use of this opportunity being provided by ISRO. This new low cost technology will help students to conduct several inspiring experiments in space by attaching their instruments to the last stage of the rocket," Dr Sivan said.

He congratulated Kalamsat-V2 team for their perfection in making satellites. "We must strive for science-oriented India. ISRO is open to all students across India. We want students to bring their satellites to us and we will launch them. Young scientists will shape the future of India," Dr Sivan said.

He also introduced the Kalamsat-V2 team. Mission Director Shri R. Hutton thanked the entire PSLV-C44 team for their relentless efforts in making the launch successful.

Earlier on January 24, 2019, Dr Sivan held the third edition of Samwad with Students (SwS) in Sriharikota. Over 300 students from schools in and around the region had an opportunity to interact with him.

SwS is the newly-launched outreach initiative of ISRO to instill scientific temper among youngsters. The first edition was held in Bengaluru on January 1, 2019 and the second one at Kochi on January 20, 2019.

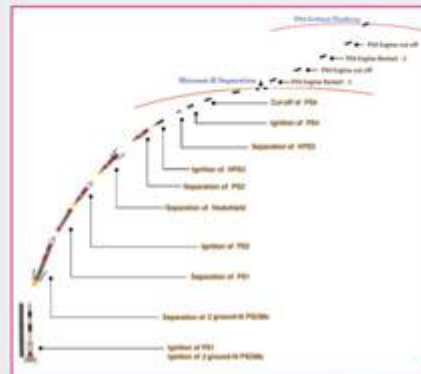
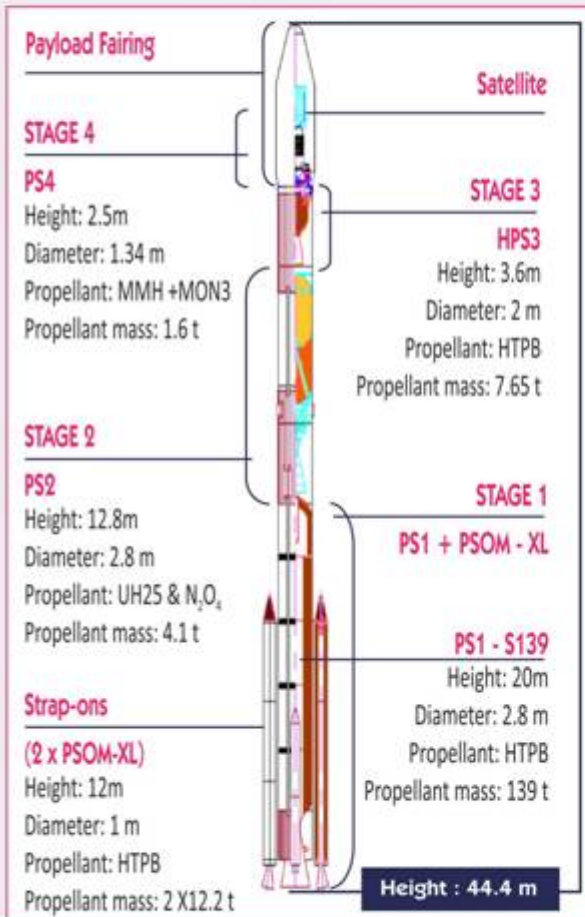
“Concentrate on the present with full sincerity. Dilemmas will disappear. A good student is not afraid of failure. Failures are important for learning as they open up new avenues,” Dr Sivan told the SwS participants.

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PSLV-C44

PSLV-C44 Successfully Launched from First Launch Pad at Satish Dhawan Space Centre SHAR, Sriharikota

- PSLV-C44 is the 46th Flight of PSLV and 1st Flight of PSLV-DL (with two strap-ons) variant
- PSLV-C44 was launched from the First Launch Pad (FLP) at Satish Dhawan Space Centre (SDSC) SHAR, Sriharikota
- Kalamsat, a student satellite, is the first to use fourth stage of PSLV as orbital platform
- Microsat-R is an imaging satellite



Event Name	Time after lift-off	Altitude (km)	Inertial Velocity (m/s)
PS1 Ignition	0.00	0.025	451.9
PSLV Strap-On Motor Ignition	0.42	0.025	451.9
PSLV Strap-On Motor Separation	69.90	23.941	1078.4
PS1 Separation	109.58	59.077	1871.3
PS2 Ignition	109.78	59.281	1870.4
Heat Shield Separation	168.58	115.751	2377.4
PS2 Separation	262.12	187.751	4055.6
PS3 Ignition	263.32	188.551	4053.8
PS3 Separation	487.72	273.906	6529.1
PS4 Ignition	498.12	275.310	6527.2
PS4 Engine Cut-off	766.56	276.576	7735.2
MICROSAT-R Separation	813.56	277.295	7740.0
PS4 Engine Restart-1	3275.52	269.040	7748.3
PS4 Engine Cut-off Restart-1	3291.68	269.057	7794.4
PS4 Engine Restart-2	6026.52	450.145	7591.7
PS4 Engine Cut-off Restart-2	6041.26	450.215	7638.1
Start of Orbital Platform function	6151.00	450.000	
End of Orbital Platform function	54000.00	450.000	



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