

# India Now Richer With an Excellent Asset in Space – HysIS: ISRO Chairman Dr K Sivan

Sriharikota (AP), Nov 29 (UNI)



ISRO Chairman Dr K Sivan on Thursday said the workhorse launch vehicle PSLV-C43 once again demonstrated its trustworthiness with the successful launch of 380 kg advanced earth observation Hyper Spectral Imaging Satellite (HysIS) and 30 co-passenger satellites from eight countries in two different orbits. (See: [ISRO does it](#))

Addressing the scientists from the Mission Control Centre after the successful mission, he said 'exactly 15 days after the spectacular GSLV MkIII-D2 /GSAT-29 mission, the Indian scientists today once again showed their excellence'.

The Core Alone PSLV-C43 lifted off at 9:57:30 hrs from the First Launch Pad and injected India's Hyper Spectral Imaging Satellite (HysIS) into the 645 km sun-synchronous polar orbit, 17 minutes and 19 seconds after the lift-off.



Later, 30 foreign satellites from eight countries, including 23 from United States, were injected into their intended orbit after restarting the vehicle's fourth stage engines twice.

The last satellite was injected into its designated orbit 1

hour and 49 minutes after the lift-off.

After separation, the two solar arrays of HysIS were deployed automatically and the ISRO Telemetry Tracking and Command Network at Bengaluru took control of the satellite.

Today's PSLV-C43 launch marked a significant milestone of 250 foreign payloads.

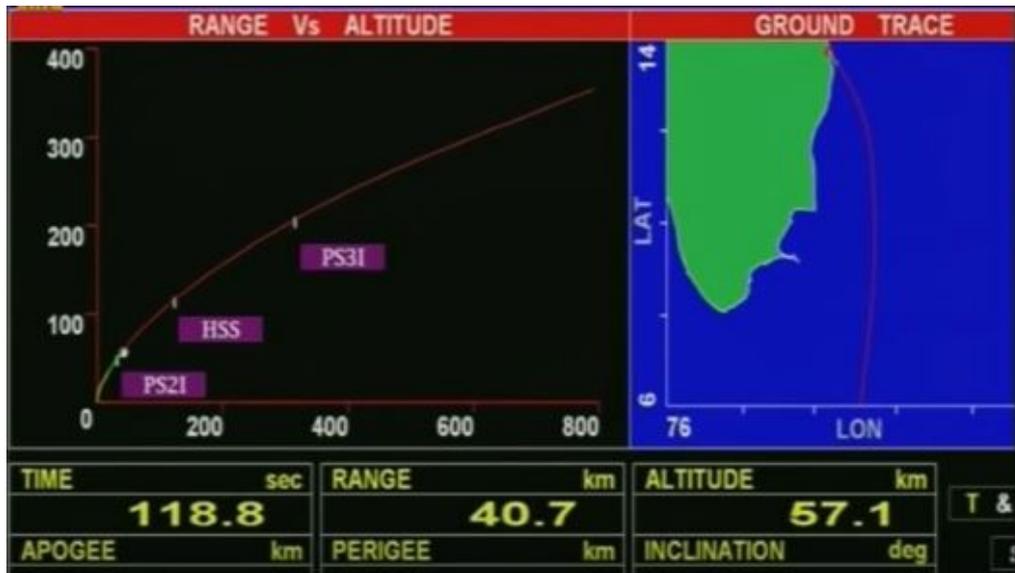
'Today our workhorse launch vehicle PSLV has successfully injected the Hyper Spectral Imaging Satellite HysIS precisely into a 636-km orbit', he said and added that subsequently after two manoeuvres of the the PS4—the fourth stage engine—it injected 30 customer satellites in their designated place.' ❌

Stating that HysIS was a state-of-the-art technology inbuilt satellite, Dr Sivan said the heart of the system required for HysIS basically was a optical imaging detector chip, which was indigenously developed by ISRO's Space Application Centre and at its FAB in Chandigarh.

'For this hi-tech satellite, I am sure that the team ISRO must be proud, as HysIS is a very good and excellent space asset to India', he added.

Congratulating the entire team for the success of today's mission, he said the second part of mission was ISRO's customers. Dr K Sivan in an address lauded the launch and the people behind it, and further informed of the missions coming up under ISRO.

'They way PSLV injected the 30 customer satellites (from eight countries, including 23 from US) at the designated home, our customers are very happy that their babies are delivered safely and precisely', Dr Sivan observed.



Flight Parameters

The way PSLV injected the 30 satellites one by one showed how precisely this mission took place, Dr Sivan said and added that it was because of team ISRO's hard work behind the mission, which as supported by the industries in providing the hardware.

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# ISRO Does it Again; PSLV-C43 With HysIS, 30 Other Satellites Launched



45th flight of PSLV launched from the First Launch Pad (FLP)

*of Satish Dhawan Space Centre (SDSC) SHAR, Sriharikota (DD pic)*

## **Sriharikota (AP), Nov 29**

India's workhorse launch vehicle PSLV-C43 carrying the 380 kg advanced earth observation Hyper Spectral Imaging Satellite (HYsIS) and 30 co-passenger satellites from eight countries, lifts off from SHAR Range here at 0958 hrs on Thursday. The countries comprise United States of America (23 satellites), Australia, Canada, Columbia, Finland, Malaysia, Netherlands and Spain (one satellite each).

After a 28 hour countdown that started at 0558 hrs yesterday morning, the home grown rocket, in its 13th Mission of the PSLV Core Alone variant, took off majestically from the First Launch Pad at 0958 hrs as scheduled and roared into the clear skies, with a rumble that shook the earth. (See: [Countdown](#))

"HysIS is an earth observation satellite developed by ISRO. It is the primary satellite of the PSLV-C43 mission. The satellite will be placed in 636 km polar sun synchronous orbit (SSO) with an inclination of 97.957 deg. The mission life of the satellite is 5 years," ISRO said.

This was a 112 minute-long mission, the PSLV-C43 lifted from its Sriharikota launchpad, released ISRO's HySIS at an altitude of 640 kilometres, and then descended to release the other 30 satellites at 504 kilometres in two batches. Earth observation satellite from Malaysia, the InnoSAT-2 was the first of the 30 to be released into orbit.

HySIS can provide imaging capabilities for a variety of purposes, including agriculture, forestry and assessing geological conditions in coastal zones, inland waterways and land.

It will capture images in the visible near-infrared (VNIR) range of the light spectrum, as well as in the shortwave

infrared (SWIR) range.



Between 1994 and 2017, the PSLV, one of the most reliable rockets in the world, launched 48 Indian & 209 foreign satellites into orbit.

The PSLV, ISRO's third generation launch vehicle, still holds the record of launching 104 satellites in a single go in February 2017.

One huge highlight for PSLV has been the launch of Chandrayaan-1 to the moon in 2008 and the Mars Orbiter Mangalyaan in 2013.

PSLV has now established itself firmly in the international commercial launch market by virtue of its various accomplishments. It has earned a reputation of being one of the most cost-effective launch vehicles for primary, as well as, co-passenger satellites. Even the U.S.A. avails its services.

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