

■ ISRO Successfully Conducts Reusable Launch Vehicle Landing Test

The Indian Space Research Organisation (ISRO) successfully completed the Reusable Launch Vehicle RLV LEX Autonomous Landing Mission in Chitradurga on 2nd April 2023. A Chinook Helicopter belonging to the Indian Air Force transported the launch vehicle to an altitude of 4.5 kilometers before releasing it mid-air. The Reusable Launch Vehicle then utilised its integrated navigation, guidance, and control system to perform landing manoeuvres, including velocity, altitude, and approach, and achieved autonomous landing on the air strip at 7.40 am at a speed of 350 kilometers per hour. ISRO developed the navigation systems, instrumentation, and sensors in-house. With this successful test, ISRO has come one step closer to realising its dream of developing a Reusable Space Vehicle in India.

■ India's First Privately Developed Advanced Fully 3D Printed Cryogenic