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ISRO COMPLETES 2 MORE HOT TESTS FOR GAGANYAAN

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NEW DELHI: The Indian Space Research Organisation (Isro) has successfully carried out two more hot tests on the Gaganyaan Service Module Propulsion System (SMPS) at the ISRO Propulsion Complex (IPRC) in Odisha, the space agency said on Thursday.

These tests, conducted on Wednesday, marked the second and third hot tests in the Service Module-System Demonstration Model (SM-SDM) phase-2 series. SMPS is designed and developed by the Liquid Propulsion System Centre (LPSC) in Bengaluru and Vallamala, Thiruvananthapuram. The first hot test was conducted on July 19.

During tests, the thrusters were operated in both continuous and pulse mode, in sync with the mission profile, Isro official said.

"The initial hot test, which lasted for 723.6 second, focused on demonstrating orbital module injection, and the calibration burn of 100 N thrusters and liquid apogee motor (LAM) engines. The calibration burn was essential to identify and isolate any non-operational engines. The LAM engines and reaction control system (RCS) thrusters performed as expected."