

PARLIAMENT QUESTION: ACHIEVEMENTS OF GAGANYAAN MISSION

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The major accomplishments under the Gaganyaan programme in the past year include the following:

- IADT-01 successfully demonstrated the objective of end-to-end performance validation of the critical parachute-based deceleration system of the Crew Module for Gaganyaan mission in nominal mission scenarios.
- For TV-D2 mission, electrical and mechanical integration activities of Crew Module completed. Environmental tests completed.
- Standalone checks of integrated Crew Module and Service Module completed for G1. Integrated software simulations being carried out.
- Service Module Propulsion System hot test for 350s to validate the integrated performance for off-nominal mission profile.
- Parachute systems: As part of the Rail Track Rocket Sled test, clustered deployment of drogue parachutes under extreme conditions of dynamic pressures carried out.
- Integrated Main Parachute Airdrop Test conducted to demonstrate the delay in disreefing between the two main parachutes.
- Ground Qualification Tests of Crew Escape System motors, Orbital Module Adaptor, Service Module structure, Service Module Fairing, separation systems and pyros carried out.

1st Test vehicle mission and 1st Integrated Airdrop tests were successful and met all the test objectives. Based on the technical observations, certain improvements such as crew module uprighting systems, additional checks during parachute assembly, have been incorporated.

The cumulative expenditure as on January 2026 is ~ ₹6018 Crores.

Risk mitigation in the actual flight is carried out by conducting extensive ground tests simulating various failure scenario. For instance, in the recent integrated Main Parachute Airdrop Test, one drogue and one main parachute failure case was simulated and system performance was verified successfully. In October 2024, the scope of Gaganyaan programme was revised from three missions (G1, G2, H1) to eight missions. It includes three uncrewed missions G1, G2, G3 followed by two crewed missions (H1 & H2) followed by docking mission to any space station (G4), launch of BAS-01 and docking mission to BAS-01 (G5).

This information was given by the Minister of State for Personnel, Public Grievances & Pensions and Prime Minister's Office Dr. Jitendra Singh in a written reply in the Rajya Sabha today.

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