

PARLIAMENT QUESTION: ISRO's UPCOMING MISSIONS AND GAGANYAAN PROGRAMME

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The major objective of Chandrayaan-4 mission is to successfully land on lunar surface, extract lunar sample through robotic arm, ascent from lunar surface and bring back the collected lunar sample to the Earth. The configuration of the spacecraft is finalized and the critical design of avionics, mission and flight dynamics is completed. The planned timeline for Chandrayaan-4 mission is 2027.

The targeted landing site for Chandrayaan-4 is in the southern polar region of Moon (~84° to 86° south latitudes). This region is expected to be geologically diverse, having close proximity to Permanently Shadowed Regions (PSR) and having possibility of finding water ice, also the polar regions of Moon remain largely unexplored and global scientific community is focused on exploring it in detail.

The Chandrayaan-5 is a joint collaborative mission between ISRO and JAXA. The spacecraft comprises of a Lander and a Rover. The Lander is being developed by ISRO whereas Rover is being designed and built by JAXA. The collaborative work extends to the finalization of interfaces between the Lander and Rover, interfaces between the spacecraft and JAXA's launch vehicle and launch operations. However, there is no collaboration with JAXA for Chandrayaan-4 mission

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