

GOVERNMENT OF INDIA
DEPARTMENT OF SPACE

RAJYA SABHA
STARRED QUESTION NO. 165

TO BE ANSWERED ON THURSDAY, AUGUST 03, 2023

GAGANYAAN MISSION

*165. SHRI MASTHAN RAO BEEDA:

Will the PRIME MINISTER be pleased to state:

- (a) the details of the Gaganyaan Mission which aims to send a three member crew to space in the 75th year of Independence;
- (b) the progress made in this regard;
- (c) the issues faced till now; and
- (d) the details of other such proposed manned missions to space?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PG &
PENSIONS AND IN THE PRIME MINISTER'S OFFICE
(DR. JITENDRA SINGH):

(a) to (d) A Statement is laid on the Table of the House.

STATEMENT LAID ON THE TABLE OF THE RAJYA SABHA IN REPLY TO STARRED QUESTION NO. 165 REGARDING “GAGANYAAN MISSION” ASKED BY SHRI MASTHAN RAO BEEDA, FOR ANSWER ON THURSDAY, AUGUST 03, 2023.

- (a) The objective of the Gaganyaan mission is to demonstrate the capability of conducting human space flight mission to Low Earth orbit (LEO) on-board Indian Launch vehicle. The Orbital module consists of a Crew module and a Service module. Crew module, which is a pressurized module, acts as living quarters for the crew. The orbital module will be positioned in ~400 km circular orbit around earth for 1 to 3 days & the Crew module will return back at the designated location in sea.
- (b) The progress made for Gaganyaan programme is as follows:
- i. The first Test Vehicle mission, for the validation of crew escape system, is planned in August/September 2023.
 - ii. All subsystems pertaining to Test Vehicle TV-D1 mission have been realized. Crew module integration is completed.
 - iii. Static tests of all Crew Escape System motors have been completed. Ground testing of Crew Module Propulsion system is completed.
 - iv. Training of crew (Astronauts) is nearing completion.
 - v. 2nd Crew Module sub-assembly identified for uncrewed mission is completed and delivered by industry.
 - vi. Orbital module preparation facility construction completed. Facility has been commissioned for integration activities of Test vehicle mission. Launch pad augmentation works for Gaganyaan are underway.
 - vii. Recovery training plan by ISRO and Indian Navy & recovery training program commenced at Naval Dockyard, Visakhapatnam.
 - viii. The delivery of human centric products for crew training commenced from various national labs. Testing of human centric products is underway.
- (c) The major issue faced till now has been the COVID pandemic which led to inevitable delay due to disruption in raw material supply etc.
- (d) Gaganyaan is the maiden human space flight mission of India. Further human space missions will be planned after the successful accomplishment of Gaganyaan mission.
