GOVERNMENT OF INDIA

DEPARTMENT OF SPACE

RAJYA SABHA

UNSTARRED QUESTION NO. 2089

TO BE ANSWERED ON THURSDAY, DECEMBER 21, 2023

KEY OBJECTIVES OF GAGANYAAN MISSION

2089. SHRI SATISH CHANDRA DUBEY:

Will the PRIME MINISTER be pleased to state:

(a) whether it is a fact that, with success of the Chandrayaan-3 Mission, India has become the first country in the world to land on the southern pole of moon successfully; and

(b) the details of the key objectives of ISRO's Gaganyaan Mission, and the manner in which it will contribute to India's ambitions in human spaceflight?

ANSWER

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

(a) With the successful soft landing of the Lander Module of Chandyaan-3 near the South pole (69.37^{o} South, 32.32^{o} East) on the Moon, India has become the first country in the world to do so.

(b) The objective of Gaganyaan programme is to demonstrate Indigenous human space flight capability which includes sending Indian astronauts to Low Earth Orbit (LEO) and bring them back safely. The scope of programme includes;

i. Demonstration of human spaceflight to Low Earth Orbit.

ii. Realization and qualification of the necessary technologies & infrastructure elements to achieve the above.
iii. Establishment of mission control, communication network and essential launch complex facilities for supporting the Gaganyaan programme.
iv. Undertaking two unmanned developmental missions prior to demonstrating human space flight.

Demonstration of indigenous human space flight capability will lead to vision of a sustained human presence in Low earth orbit. Also various key technologies developed for Gaganyaan programme viz. Crew Modules, Life support system, human rated launch vehicle etc. will pave the way for building up of more complex orbital modules and technologies for sustained human presence in space.

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