

GOVERNMENT OF INDIA
DEPARTMENT OF SPACE

RAJYA SABHA

UNSTARRED QUESTION NO. 291

TO BE ANSWERED ON THURSDAY, DECEMBER 08, 2022

SETTING UP OF PERMANENT STATION ON THE MOON

291. SHRI KARTIKEYA SHARMA:

Will the PRIME MINISTER be pleased to state:

- (a) whether Indian Space Research Organisation (ISRO) has started the Mission to set up permanent station on the Moon;
- (b) if so, the details thereof and its objectives;
- (c) the major constraints to set up permanent station on the Moon;
- (d) the status of the proposal to take human beings to Mars and beyond;
- (e) whether ISRO is capable to use rockets for multiple use; and
- (f) if so, the details thereof and if not, the hurdles for multiple use?

ANSWER

**MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PUBLIC GRIEVANCES
& PENSIONS AND IN THE PRIME MINISTER'S OFFICE**

(DR. JITENDRA SINGH):

(a) & (b)

As on date, ISRO is gearing up for Chandrayaan -3 mission for demonstrating soft landing on the moon.

(c) Major constraints in setting up permanent station on the moon are of technological, scientific and budgetary nature, with sustained efforts required in indigenous development of

various associated technology elements such as economical heavy-lift launch vehicles, crew & cargo transportation capabilities in outer space, landing and sustenance in lunar environment, etc.

(d) As on date, ISRO does not have any proposal to take human beings to Mars and beyond.

(e) & (f)

The Reusable Launch Vehicle (RLV) Project is under progress at ISRO, under which the Technology Demonstrator (RLV-TD) was successfully flight tested on May 23, 2016 from SDSC-SHAR, Sriharikota, validating the critical technologies such as autonomous navigation, guidance & control, reusable thermal protection system and re-entry mission management. The next test planned under the project is the First runway landing experiment [RLV-LEX], which is scheduled early next year from Aeronautical Test Range, Chitradurga, Karnataka.
