GOVERNMENT OF INDIA
DEPARTMENT OF SPACE

LOK SABHA
UNSTARRED QUESTION NO.708

TO BE ANSWERED ON WEDNESDAY, DECEMBER 20, 2017

SOLAR MISSION

708. DR. A. SAMPATH:

Will the PRIME MINISTER be pleased to state:

(a) whether the Indian Space Research Organisation (ISRO) is set to launch its first solar mission;

(b) if so, the details thereof;

(c) whether the mission is a joint venture;

(d) if so, the details thereof along with the list of institutions participating in the mission; and

(e) the details of objectives of the mission?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PG & PENSIONS AND IN THE PRIME MINISTER'S OFFICE

(DR. JITENDRA SINGH):

(a) Yes Sir. The Indian Space Research Organisation (ISRO) is planning to launch the first solar mission, Aditya-L1.

(b) Aditya-L1 mission is aimed at studying the Sun from an orbit around the Sun-Earth Lagrangian point 1 (L1) which is about 1.5 million kilometres from the Earth. It carries seven payloads

to observe the photosphere, chromosphere and the outermost layers of the Sun, the corona in different wavebands.

(c) Aditya-L1 is a fully indigenous effort with the participation of national institutions.

(d) Indian Institute of Astrophysics (IIA), Bengaluru is the lead institute for the development of Visible Emission Line Coronagraph (VELC) and Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune is developing the Solar Ultraviolet Imager (SUIT) payload for Aditya-L1 mission.

(e) Aditya-L1 can provide observations on the corona and in addition can provide observations on the solar Chromosphere using the UV payload and on the flares using the X-ray payloads. The particle detectors and the magnetometer payload can provide information on charged particles and the magnetic field reaching the halo orbit around L1.

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