GOVERNMENT OF INDIA

DEPARTMENT OF SPACE

LOK SABHA

UNSTARRED QUESTION NO. 4446

TO BE ANSWERED ON WEDNESDAY, MARCH 30, 2022

OBSERVATION SATELLITE EOS-4

4446. SHRI SANJAY SADASHIVRAO MANDLIK:
SHRI RAVINDRA KUSHWAHA:
SHRI RAVI KISHAN:
SHRI SUBRAT PATHAK
SHRI MANOJ TIWARI:
SHRI SUDHEER GUPTA:
SHRI PRATAPRAO JADHAV:
SHRI SHRIRANG APPA BARNE:
SHRI DHAIRYASHEEL SAMBHAJIRAO MANE:

Will the PRIME MINISTER be pleased to state:

(a) whether the Indian Space Research Organization (ISRO) has recently launched its observation satellite EOS-04 and two small satellites into orbit;

(b) if so, the aims and objectives of launch of such satellites;

(c) whether the desired objectives/targets have been achieved successfully and if so, the details thereof;

(d) the time in which such a satellite has been made and the total expenditure incurred on the development of such satellite along with the cost of its launch;

(e) whether ISRO has also launched satellites of some other nations with EOS-04 and if so, the details thereof; and

(f) the details of total number of satellites likely to be launched by ISRO during the current year?

ANSWER

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

(DR. JITENDRA SINGH):

(a) & (b)

Yes Sir, ISRO has successfully launched the earth observation satellite EOS-4 onboard PSLV-C52 on 14th February, 2022 at 05:59 hrs IST from Satish Dhawan Space Centre, Sriharikota, along with INS-2TD & INSPIRESat-1 as co-passengers. The Satellites were injected into the polar sun synchronous orbit at 524.84 km altitude.

EOS-4 is a Synthetic Aperture Radar (SAR) imaging satellite for Earth Observation, operating in C-band at 5.4 GHz frequency, for applications in the domains of agriculture, disaster management, water resources and forestry.

INS-2TD is the first satellite of the 2nd generation nanosatellites intended to demonstrate indigenously developed Nano systems for in-orbit performance.

INSPIRESat-1 is a student satellite of the class 9U, jointly developed by Indian Institute of Space Science and Technology (IIST), Thiruvananthapuram, India and Laboratory of Space Physics, University of Colorado, Boulder, the USA, to

study the Ionosphere dynamics and sun's coronal heating processes.

(c) Currently, the satellites are undergoing various in-orbit tests and calibrations. Subsequently, the data available from the satellites will be used for achieving the mission objectives, during the designated mission life.

(d) The total time taken to realize the satellite is 63 months from date of financial sanction and the expenditure towards realization of satellite is nearly Rs. 490 crore.

(e) No, Sir.

(f) 7 satellites are likely to be launched by ISRO during the current year.

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