

Sending of first Indian to Moon

3175. DR. E.M. SUDARSANA NATCHIAPPAN: Will the PRIME MINISTER be pleased to state:

(a) whether Government is having clear road map to make the CHANDRAYAN-II successful; and

(b) if so, the milestones to send the first Indian to the Moon?

THE MINISTER OF STATE IN THE DEPARTMENT OF SPACE (DR. JITENDRA SINGH): (a) Indian Space Research Organisation (ISRO) and Russian Federal Space Agency (ROSCOSMOS) have been pursuing Chandrayaan-2 as a joint mission under which, ROSCOSMOS had the responsibility for the Lander and ISRO had the responsibility to realize the Rover Module, Orbiter and the launch by GSLV.

Consequent to the failure of the Russian-led sample return mission to Phobos (one of the moons of Mars), ROSCOSMOS communicated the shift in the approach for India-Russia joint mission, in May 2012, which called for a major programmatic realignment and lead to re-definition of Chandrayaan-2, with an Indian Lander.

Subsequently, based on the recommendations of an integrated programmatic review conducted at ISRO, Chandrayaan-2 has been reconfigured with an Indian Orbiter, Lander and Rover for *in-situ* investigation of the lunar surface. The revised Chandrayaan-2 project with Indian Lander is currently under process in ISRO for approval by the Government.

Based on the assessment of the project is likely to be completed by 2016-2017.

(b) The Chandrayaan-2 is an unmanned mission to Moon. There is no immediate plan for manned mission to Moon.

Request for launching of satellite

3176. SHRI D.P. TRIPATHI: Will the PRIME MINISTER be pleased to state:

(a) whether it is a fact that requests from a number of countries for launching their satellites in India has been received;

(b) if so, whether ISRO has only two satellite launch pads and which are affected during the cyclone season; and

(c) the steps Government is taking for setting up of new launching sites?

THE MINISTER OF STATE IN THE DEPARTMENT OF SPACE (DR. JITENDRA SINGH): (a) Yes, Sir.

(b) Indian Space Research Organisation (ISRO) has two satellite launch pads at Satish Dhawan Space Centre, Sriharikota, which is the main spaceport of the country. These launch pads have been built with state-of-the-art technology and also are designed and built to withstand cyclones.

(c) An expert committee constituted by the Government is carrying out detailed analysis considering the launch requirements for next decade, azimuth corridor for flight path, impact points of spent stages, safety zones, and mission requirements. The report of the committee is expected to be finalized by October, 2014

Launching of GSAT-SP

3177. SHRI BAISHNAB PARIDA: Will the PRIME MINISTER be pleased to state:

(a) the status of launching the next generation communication Satellite (GSAT-SP);

(b) to what extent this would help spread and linkage in the telemedicine initiative, which is gaining stream across the country; and

(c) the time-frame within which the above system would cover the entire medical field at the grass root level in the country?

THE MINISTER OF STATE IN THE DEPARTMENT OF SPACE (DR. JITENDRA SINGH): (a) A communication satellite designated as GSAT-5P carrying 24 C-band and 12 Extended C-band transponders was launched on December 25, 2010 on-board GSLV-F06, which could not accomplish the mission due to launch failure. There is no Indian communication satellite designated as GSAT-5P, referred in the question.

(b) The transponder capacity on GSAT-5P was planned to augment the INSAT/GSAT capacity for supporting ongoing satellite communication services including telemedicine. GSAT-12 satellite launched subsequently, on July 15, 2011 is providing linkage for the telemedicine network to the extent of supporting 384 telemedicine centres in the country.

(c) Telemedicine centres are established based on need and support from State Governments/NGOs. The expansion of Telemedicine centres is an ongoing process and the same is carried out based on the proposals received from State Governments/NGOs, technology and connectivity needs and fund availability.

Estimation of per-capita income and gross domestic product

3178. DR. T. N. SEEMA: Will the Minister of STATISTICS AND PROGRAMME IMPLEMENTATION be pleased to state:

(a) whether Government has estimated per-capita income and gross domestic product in the country during each of the last three years and the current year, if so, the details thereof, State-wise;

(b) whether Government has prepared any list of poor States;