

**GOVERNMENT OF INDIA
SPACE
LOK SABHA**

UNSTARRED QUESTION NO:1607
ANSWERED ON:06.03.2013
ISRO S EXPERIMENTS ON CLIMATE CHANGE
Siricilla Shri Rajaiah

Will the Minister of SPACE be pleased to state:

(a) whether the Indian Space Research Organisation (ISRO) is conducting experiments and undertaking research programmes to study the phenomenon of climate change; and

(b) if so, the details thereof and the amount spent for this purpose in the 11th and 12th Plan periods?

Answer

MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PG & PENSIONS AND IN THE PRIME MINISTER'S OFFICE (SHRI V. NARAYANASAMY):

(a) Yes, Sir.

(b) In order to support research in the field of climate change, Indian Space Research Organization (ISRO) -

(i) conducts experiments by means of balloons carrying radiosonde and ozonesonde to measure temperature, humidity, pressure and ozone;

(ii) sets up network of observatories with instruments, which include indigenously developed multi-wavelength radiometer to measure aerosols, Athalometer for black carbon, Nephelometer for scattering coefficient, Quartz Crystal Microbalance for particle size, mass and density; Boundary Layer Lidar for chemical pollution; and data utilization from satellite and ground based observatories.

(iii) conducts, in collaboration with national laboratories and academic institutions, studies on landuse/landcover dynamics, atmospheric aerosols and trace gas chemistry, energy and mass exchange in the agricultural systems, chemical pollution and atmospheric carbon sequestration.

Amount spent for this purpose during the 11th Five Year Plan period is ` 90.31 crores. The plan outlay for the 12th Five Year Plan for this purpose is ` 150 crore.