

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE**

LOK SABHA

UNSTARRED QUESTION NO. 1531

TO BE ANSWERED ON WEDNESDAY, DECEMBER 04, 2024

SPACE TECHNOLOGY PROGRAMME IN ANDHRA PRADESH

1531. DR. BYREDDY SHABARI:

Will the PRIME MINISTER be pleased to state:

- (a) whether the State of Andhra Pradesh is getting benefits from any space technology programme aimed in improving agriculture and resource management and if so, the details thereof;**
- (b) the impact of ISRO's initiatives on weather forecasting and disaster preparedness in Andhra Pradesh; and**
- (c) whether there are any satellite data centres or space-related facilities in the Nandyal, Andhra Pradesh and if so, the details thereof?**

ANSWER

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

(DR. JITENDRA SINGH):

- (a) Space based inputs are used in Andhra Pradesh for pre-harvest crop acreage & production estimation for rice crop, inventory of horticulture crops, viz., mango, banana, citrus & turmeric, and for agricultural drought assessment. Space technology is being used on experimental basis for rice yield estimation in Kakinada and Guntur districts of Andhra Pradesh under PMFBY scheme and the inputs are used for crop insurance claim settlement by Govt. of Andhra Pradesh.**

ISRO generates and disseminates spatial data on land use / land cover (annual and at 5-yearly interval), surface water spread (weekly), and wastelands & land degradation (decadal), for India. These inputs are useful for resources management for Andhra Pradesh state.

- (b) Data of the meteorological and ocean observation satellite such as INSAT-3DR & 3DS, and Oceansat-3 realized by ISRO are being used for weather forecasting and early warning of cyclones and extreme weather events by IMD.**

As part of National Hydrology Project, ISRO developed spatial flood early warning system for the Godavari river using satellite data and high resolution digital terrain data. It is implemented on experimental mode since 2022 and flood alerts are being disseminated to the Andhra Pradesh State Disaster Management Authority with 2-day lead time.

During the flood season, ISRO generates flood inundation maps for major floods using satellite data and are provided to Andhra Pradesh State Disaster Management Authority and

Andhra Pradesh State Remote Sensing Centre, for flood disaster management.

ISRO released Flood Hazard Zonation Atlas for Andhra Pradesh in 2022, which is prepared using flood inundation maps generated using satellite data during 2000 to 2020.

ISRO/ DoS has not conducted any impact assessment of ISRO's initiatives on weather forecasting and disaster preparedness in Andhra Pradesh.

(c) ISRO/ DoS has not established any satellite data centre or space-related facilities in the Nandyal, Andhra Pradesh.
