

**GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
RAJYA SABHA
UNSTARRED QUESTION NO. 2757
TO BE ANSWERED ON MONDAY JANUARY 7, 2019**

REMOTE SENSING SATELLITE BASED RESEARCH PROJECTS

2757. DR. V. MAITREYAN:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether Government has initiated any specific remote sensing satellite-based projects, in the National Institute of Ocean Technology (NIOT), Chennai;**
- (b) if so, the details thereof and if not, the reasons therefor;**
- (c) the total amount allocated in the last three years for the project;**
- (d) whether Government has initiated any satellite-based project to predict occurrence of cyclones, earthquakes and Tsunami;**
- (e) if so, the details thereof and if not, the reasons therefor; and**
- (f) the steps taken by Government for effective search operations to trace missing persons during the cyclones?**

ANSWER

**MINISTER FOR MINISTRY OF SCIENCE AND TECHNOLOGY AND
MINISTRY OF EARTH SCIENCES
(DR. HARSH VARDHAN)**

- (a) Yes, Sir.**
- (b) NIOT has already established ocean observation system comprising of ocean moored buoys, tide gauges, tsunami buoys etc in adjoining seas for making in-situ measurements of met-ocean data and transmission in real time through satellite connectivity.**
- (c) In this regard, Rs. 22 crore, Rs. 25 crore and Rs. 19.97 crore were allocated to NIOT for the year 2015-16, 2016-17 and 2017-18 respectively.**
- (d) Yes, Sir.**
- (e) The data acquired from ocean observation system is received at Indian National Centre for Ocean Information Services (INCOIS), Hyderabad through satellite, based on which ocean state forecast and tsunami advisories are issued to fisherman communities and local authorities. Inputs are also provided to India Meteorological Department (IMD) to monitor cyclones.**
- (f) INCOIS has developed anApp Called SARAT (Search And Rescue Aid Tool) which can predict the search location in the sea up to 10 days.**
