

GOVERNMENT OF INDIA  
MINISTRY OF EARTH SCIENCES  
LOK SABHA  
UNSTARRED QUESTION NO. 2475  
TO BE ANSWERED ON WEDNESDAY, 16<sup>TH</sup> MARCH, 2022

TIDE GAUGE NETWORK

2475. SHRI MAGUNTA SREENIVASULU REDDY:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) the details of research project embodied on climate change by the Union Government;
- (b) the availability of baseline data and advanced elevation data to predict sea-level rise; and
- (c) the details of the set-up of tide gauge network in India specifically in Andhra Pradesh?

**ANSWER**

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR  
MINISTRY OF SCIENCE AND TECHNOLOGY  
AND EARTH SCIENCES  
(DR. JITENDRA SINGH)

- (a) Sir, recently the Cabinet has approved a mission mode programme “Deep Ocean Mission” to be implemented by the Ministry of Earth Sciences, Govt. of India. One of the objectives of this Mission, among other things, is to provide projections of sea level rise along the coast of India under the various climate change scenarios. As an outcome of this project, a suite of interactive GIS maps identifying vulnerable areas and possible inundation scenarios will be prepared.
- (b) INCOIS, an autonomous institute of MoES has acquired the baseline Airborne Lidar Terrain Mapping (ALTM) elevation data from National Remote Sensing Centre (NRSC), under ISRO for the Tsunami Inundation modelling and vulnerability mapping. This data is available for the main land Indian coast upto two kilometres from the coast and would be used for predicting the sea-level rise.
- (c) As part of Indian Tsunami Early Warning System, INCOIS has established a real-time network of 36 tide gauges at different locations along the Indian coast to monitor the tsunami waves and provide timely advisories. It has established 4 tide gauges in Andhra Pradesh at below locations.

S.No.	Station Name	Latitude(°N)	Longitude(°E)
1	Visakhapatnam	17.683	83.283
2	Kakinada	16.933	82.25
3	Machilipatnam	16.145	81.178
4	Krishnapatnam	14.25	80.133

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