

GOVERNMENT OF INDIA  
MINISTRY OF EARTH SCIENCES  
**RAJYA SABHA**  
**UNSTARRED QUESTION NO. - 977**  
ANSWERED ON – 10/02/2022

**COASTAL VULNERABILITY DUE TO SEA EROSION**

**977. SHRI PARIMAL NATHWANI:**

Will the Minister of **EARTH SCIENCES** be pleased to state:

- (a) whether the coastal vulnerability due to sea erosion, cyclones, floods, etc., has become a reality which poses a big threat to the lives of large coastal communities, especially the fishermen and if so, the details thereof;
- (b) whether Government has taken steps to prevent such hazardous situation by implementing newer anti-sea erosion techniques;
- (c) if so, the details thereof and the new measures taken to protect and restore the entire coastline of the country; and;
- (d) whether the stakeholders have been taken into confidence while implementing preventive measures and if so, the details thereof?

**ANSWER**

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

- (a) Yes, Sir. National Center for Coastal Research (NCCR) an attached office of Ministry of Earth Sciences has undertaken vulnerability studies due to sea erosion at selected locations along the Indian coast. Extreme rainfall and associated flooding pose a threat to the coastal communities including fishermen and Integrated Flood Warning System (I-Flows) has been developed for two coastal cities (Chennai and Mumbai) to disseminate information on flood vulnerability in the event of heavy rains to the state government through IMD for mitigation actions. Further, NCCR has also developed a mobile application viz. 'Thoondil' along with the Department of Fisheries, Government of Tamil Nadu to disseminate information to the coastal fishermen in the event of hazards. In addition, the information on shoreline vulnerability due to erosion has being made available by NCCR to all coastal states for devising the appropriate mitigating measures to protect the coastline.
- (b)& (c) Yes, Sir. Ministry of Earth Sciences (MoES) had successfully demonstrated the coastal erosion mitigation measures at Puducherry and Kadalur Periyakuppam village in Tamil Nadu.
- (d) Yes, Sir. Coastal stakeholders like fishermen and local administration/Government bodies were consulted during the development of tools like flood warning system and android based app for fishing community while implementing preventive measures.

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