

GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCES
RAJYA SABHA
UNSTARRED QUESTION No. 1309
ANSWERED ON 14/12/2023

Conduct of study along the delta districts of Tamil Nadu

1309. SHRI S. KALYANASUNDARAM:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether the Central Government has conducted any studies along the delta districts of Tamil Nadu and the coastline of the delta districts;
(b) if so, the details of reports of such studies; and
(c) if not, the reasons therefor?

ANSWER
THE MINISTER OF EARTH SCIENCES
(SHRI KIRAN RIJJU)

(a)– (b) The National Center for Coastal Research (NCCR), an attached office of the Ministry of Earth Sciences has carried out the vulnerability studies with respect to coastal erosion and flooding due to climate change along the major deltas of Tamil Nadu such as Palar Delta, Ponnaiyar Delta, Cauvery Delta, Vellar Delta, Vaigai Delta and the major delta districts covered Cuddalore, Nagapattinam, Thiruvavarur, Thanjavur and Pudukkottai. There are two reports available with said information covering the delta districts.

- (i) **Shoreline Atlas for Tamil Nadu Coast:** The shoreline change atlas for the delta districts of Tamil Nadu has been prepared using remote sensing data from 1990 to 2018. The findings reveal that approximately 43% of the coastline is experiencing erosion, while 22% is undergoing accretion, and 34% remains stable. The delta district wise details are provided in the below table.

Shoreline Change (1990-2018) - Delta Districts of Tamil Nadu coast				
District	Coastal length (km)	Erosion (%)	Stable (%)	Accretion (%)
Cuddalore	43.35	41.0	21.1	38.0
Nagapattinam	125.65	48.1	12.7	39.2
Thiruvavarur	24.39	62.9	24.8	12.3
Thanjavur	52.36	33.4	39.2	27.5
Pudukkottai	46.74	46.0	41.9	12.1

- (ii) **Coastal Inundation Risk Atlas (CIRA) for Tamil Nadu:** NCCR has also developed the Coastal Inundation Risk Atlas (CIRA) for the delta districts and the areas that are likely to be impacted due to climate change have also been mapped.

- (c) Does not arise.
